

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|------------|
| Desired Amplitude: | 0.01 |
| Actual Amplitude: | 0.01 |
| Actual Power: | 0.0001 |
| Distortion 2H-18H: | 0.0545846% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | |
|-----------|---------|--------------|---------------|
| P1 start: | 8.9575 | end: 8.9856 | delta: 0.0281 |
| P2 start: | 26.9592 | end: 27.0409 | delta: 0.0817 |
| P3 start: | 44.9363 | end: 45.0636 | delta: 0.1273 |
| P4 start: | 62.9198 | end: 63.0802 | delta: 0.1604 |
| P5 start: | 80.9111 | end: 81.0889 | delta: 0.1778 |

| | |
|------------------|------------------|
| H3: -0.000268148 | H19: 1.00052 |
| H5: -0.000245887 | H21: -0.999261 |
| H7: -0.000138772 | H23: 0.000783327 |
| H9: -5.90263e-05 | H25: 0.000702447 |
| H11: 4.27749e-05 | H27: 0.000428643 |
| H13: 0.000136604 | H29: 0.000166175 |
| H15: 0.000189221 | H31: -0.00014101 |
| H17: 0.000294189 | H33: -0.00042131 |

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| H19f: 0.0526589 |
| H21f: -0.0475839 |
| H23f: 3.40577e-05 |
| H25f: 2.80979e-05 |
| H27f: 1.58757e-05 |
| H29f: 5.73017e-06 |
| H31f: -4.54872e-06 |
| H33f: -1.2767e-05 |

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| c1sd = -0.0284 |
| c1ed = -0.0003 |
| c2sd = 0.0001 |
| c2ed = 0.0 |
| c3sd = 0.0 |
| c3ed = -0.0001 |
| c4sd = 0.0 |
| c4ed = 0.0 |
| varx = 7.0973%. |

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|-------------|
| Desired Amplitude: | 0.02 |
| Actual Amplitude: | 0.0199997 |
| Actual Power: | 0.000399988 |
| Distortion 2H-18H: | 0.11117% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | | | |
|-----------|---------|------|---------|--------|--------|
| P1 start: | 8.9156 | end: | 8.9718 | delta: | 0.0562 |
| P2 start: | 26.9183 | end: | 27.0816 | delta: | 0.1632 |
| P3 start: | 44.8727 | end: | 45.1273 | delta: | 0.2545 |
| P4 start: | 62.8396 | end: | 63.1604 | delta: | 0.3208 |
| P5 start: | 80.822 | end: | 81.1777 | delta: | 0.3557 |

| | | |
|------------------|-------------------|--------------------|
| H3: -0.000607137 | H19: 1.00077 | H19f: 0.0526722 |
| H5: -0.00042879 | H21: -0.998241 | H21f: -0.0475353 |
| H7: -0.000274838 | H23: 0.00149458 | H23f: 6.49817e-05 |
| H9: -9.19138e-05 | H25: 0.00132933 | H25f: 5.31731e-05 |
| H11: 0.000116253 | H27: 0.000829192 | H27f: 3.07108e-05 |
| H13: 0.000261244 | H29: 0.000323196 | H29f: 1.11447e-05 |
| H15: 0.000431573 | H31: -0.000293041 | H31f: -9.45295e-06 |
| H17: 0.000575664 | H33: -0.00077364 | H33f: -2.34436e-05 |

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| c1sd = -0.0562 |
| c1ed = -0.0001 |
| c2sd = 0.0001 |
| c2ed = -0.0002 |
| c3sd = 0.0 |
| c3ed = 0.0 |
| c4sd = 0.0 |
| c4ed = 0.0 |
| varx = 7.095%. |

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Desired Amplitude: 0.03
 Actual Amplitude: 0.03
 Actual Power: 0.000900001
 Distortion 2H-18H: 0.163127%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.8738 | end: 8.958 | delta: 0.0841 |
| P2 start: 26.8747 | end: 27.1194 | delta: 0.2447 |
| P3 start: 44.809 | end: 45.1908 | delta: 0.3817 |
| P4 start: 62.7594 | end: 63.2407 | delta: 0.4813 |
| P5 start: 80.7328 | end: 81.2665 | delta: 0.5337 |

| | | |
|------------------|-------------------|--------------------|
| H3: -0.000957069 | H19: 1.00099 | H19f: 0.0526835 |
| H5: -0.000582843 | H21: -0.996783 | H21f: -0.0474659 |
| H7: -0.0003079 | H23: 0.00212638 | H23f: 9.24512e-05 |
| H9: -0.000125923 | H25: 0.0018062 | H25f: 7.22482e-05 |
| H11: 0.000124645 | H27: 0.000964096 | H27f: 3.57073e-05 |
| H13: 0.00028644 | H29: 0.000437987 | H29f: 1.5103e-05 |
| H15: 0.000592793 | H31: -0.000332207 | H31f: -1.07163e-05 |
| H17: 0.00091962 | H33: -0.000836487 | H33f: -2.53481e-05 |

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|-----------------|
| c1sd = -0.0839 |
| c1ed = 0.0002 |
| c2sd = -0.0027 |
| c2ed = -0.0033 |
| c3sd = 0.0 |
| c3ed = -0.0002 |
| c4sd = 0.0 |
| c4ed = 0.0 |
| varx = 7.0912%. |

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.04
 Actual Amplitude: 0.0400002
 Actual Power: 0.00160001
 Distortion 2H-18H: 0.216134%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.8326 | end: 8.9447 | delta: 0.112 |
| P2 start: 26.8347 | end: 27.1608 | delta: 0.3261 |
| P3 start: 44.7437 | end: 45.2526 | delta: 0.509 |
| P4 start: 62.6786 | end: 63.3205 | delta: 0.6419 |
| P5 start: 80.6425 | end: 81.3541 | delta: 0.7116 |

| | | |
|------------------|-------------------|--------------------|
| H3: -0.00115733 | H19: 1.00092 | H19f: 0.05268 |
| H5: -0.000854529 | H21: -0.995111 | H21f: -0.0473862 |
| H7: -0.000437184 | H23: 0.00221774 | H23f: 9.64235e-05 |
| H9: -0.000335184 | H25: 0.00259303 | H25f: 0.000103721 |
| H11: 0.000282003 | H27: 0.00140187 | H27f: 5.19211e-05 |
| H13: 0.000437247 | H29: 0.00104513 | H29f: 3.6039e-05 |
| H15: 0.000811651 | H31: -0.000808113 | H31f: -2.60682e-05 |
| H17: 0.00116994 | H33: -0.00122736 | H33f: -3.71927e-05 |

c1sd = -0.1111
 c1ed = 0.0009
 c2sd = -0.002
 c2ed = -0.0025
 c3sd = -0.002
 c3ed = -0.0017
 c4sd = -0.0009
 c4ed = 0.0
 varx = 7.0856%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.05
 Actual Amplitude: 0.05
 Actual Power: 0.0025
 Distortion 2H-18H: 0.249391%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.7933 | end: 8.9333 | delta: 0.1399 |
| P2 start: 26.7917 | end: 27.1992 | delta: 0.4074 |
| P3 start: 44.6758 | end: 45.3119 | delta: 0.6362 |
| P4 start: 62.5973 | end: 63.3997 | delta: 0.8024 |
| P5 start: 80.552 | end: 81.4418 | delta: 0.8897 |

| | |
|------------------|------------------|
| H3: -0.00135389 | H19: 1.00098 |
| H5: -0.00094378 | H21: -0.99283 |
| H7: -0.000534923 | H23: 0.00194386 |
| H9: -0.000513529 | H25: 0.00292126 |
| H11: 0.000497845 | H27: 0.00178479 |
| H13: 0.000585178 | H29: 0.00166102 |
| H15: 0.000925465 | H31: -0.00136011 |
| H17: 0.00122443 | H33: -0.00158387 |

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| H19f: 0.052683 |
| H21f: -0.0472776 |
| H23f: 8.45159e-05 |
| H25f: 0.00011685 |
| H27f: 6.61032e-05 |
| H29f: 5.72765e-05 |
| H31f: -4.38746e-05 |
| H33f: -4.7996e-05 |

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|-----------------|
| c1sd = -0.1365 |
| c1ed = 0.0034 |
| c2sd = -0.0046 |
| c2ed = -0.0045 |
| c3sd = -0.007 |
| c3ed = -0.0053 |
| c4sd = -0.003 |
| c4ed = 0.0 |
| varx = 7.0786%. |

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Desired Amplitude: 0.06
 Actual Amplitude: 0.0600023
 Actual Power: 0.00360028
 Distortion 2H-18H: 0.250309%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.7568 | end: 8.9247 | delta: 0.168 |
| P2 start: 26.7408 | end: 27.2298 | delta: 0.489 |
| P3 start: 44.6064 | end: 45.3699 | delta: 0.7635 |
| P4 start: 62.5152 | end: 63.4782 | delta: 0.963 |
| P5 start: 80.4607 | end: 81.5285 | delta: 1.0678 |

| | | |
|------------------|------------------|--------------------|
| H3: -0.00131413 | H19: 1.00135 | H19f: 0.0527027 |
| H5: -0.000914451 | H21: -0.989726 | H21f: -0.0471298 |
| H7: -0.000423889 | H23: 0.00110846 | H23f: 4.81939e-05 |
| H9: -0.000631136 | H25: 0.00279228 | H25f: 0.000111691 |
| H11: 0.000665171 | H27: 0.00145738 | H27f: 5.3977e-05 |
| H13: 0.00043587 | H29: 0.00210886 | H29f: 7.27193e-05 |
| H15: 0.00082777 | H31: -0.00176203 | H31f: -5.68397e-05 |
| H17: 0.00134411 | H33: -0.0011305 | H33f: -3.42576e-05 |

c1sd = -0.1593
 c1ed = 0.0087
 c2sd = -0.0155
 c2ed = -0.0138
 c3sd = -0.0141
 c3ed = -0.0096
 c4sd = -0.0067
 c4ed = 0.0
 varx = 7.0702%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|------------|
| Desired Amplitude: | 0.07 |
| Actual Amplitude: | 0.0700237 |
| Actual Power: | 0.00490332 |
| Distortion 2H-18H: | 0.260042% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | | | |
|-----------|---------|------|---------|--------|--------|
| P1 start: | 8.7195 | end: | 8.9154 | delta: | 0.196 |
| P2 start: | 26.6938 | end: | 27.2645 | delta: | 0.5707 |
| P3 start: | 44.5351 | end: | 45.426 | delta: | 0.8909 |
| P4 start: | 62.4326 | end: | 63.5564 | delta: | 1.1238 |
| P5 start: | 80.3706 | end: | 81.6172 | delta: | 1.2465 |

| | |
|------------------|------------------|
| H3: -0.00137316 | H19: 1.00141 |
| H5: -0.000745431 | H21: -0.986439 |
| H7: -0.000602742 | H23: 0.000165961 |
| H9: -0.000815612 | H25: 0.00247143 |
| H11: 0.000765845 | H27: 0.00199361 |
| H13: 0.000573908 | H29: 0.00262785 |
| H15: 0.00079738 | H31: -0.00207259 |
| H17: 0.00131935 | H33: -0.00153478 |

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| H19f: 0.0527057 |
| H21f: -0.0469733 |
| H23f: 7.21571e-06 |
| H25f: 9.88573e-05 |
| H27f: 7.38375e-05 |
| H29f: 9.06157e-05 |
| H31f: -6.68578e-05 |
| H33f: -4.65084e-05 |

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|----------------|
| c1sd = -0.1828 |
| c1ed = 0.0131 |
| c2sd = -0.0227 |
| c2ed = -0.019 |
| c3sd = -0.0233 |
| c3ed = -0.0156 |
| c4sd = -0.011 |
| c4ed = 0.0 |
| varx = 7.06%. |

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.08
 Actual Amplitude: 0.0800334
 Actual Power: 0.00640534
 Distortion 2H-18H: 0.203201%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.6913 | end: 8.9155 | delta: 0.2242 |
| P2 start: 26.6366 | end: 27.2892 | delta: 0.6526 |
| P3 start: 44.462 | end: 45.4805 | delta: 1.0184 |
| P4 start: 62.3465 | end: 63.6312 | delta: 1.2846 |
| P5 start: 80.2801 | end: 81.7047 | delta: 1.4246 |

| | |
|------------------|------------------|
| H3: -0.00105381 | H19: 1.00194 |
| H5: -0.000592082 | H21: -0.982182 |
| H7: -0.000444726 | H23: -0.00190564 |
| H9: -0.000736468 | H25: 0.00181975 |
| H11: 0.000657218 | H27: 0.00156028 |
| H13: 0.000423427 | H29: 0.00238594 |
| H15: 0.000429427 | H31: -0.00174033 |
| H17: 0.00106404 | H33: -0.00105315 |

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|--------------------|
| H19f: 0.0527337 |
| H21f: -0.0467706 |
| H23f: -8.28538e-05 |
| H25f: 7.27901e-05 |
| H27f: 5.77881e-05 |
| H29f: 8.22738e-05 |
| H31f: -5.61397e-05 |
| H33f: -3.19137e-05 |

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|-----------------|
| c1sd = -0.1979 |
| c1ed = 0.0263 |
| c2sd = -0.0418 |
| c2ed = -0.0324 |
| c3sd = -0.0371 |
| c3ed = -0.0204 |
| c4sd = -0.0223 |
| c4ed = 0.0 |
| varx = 7.0486%. |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 9/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.09
Actual Amplitude: 0.0900337
Actual Power: 0.00810606
Distortion 2H-18H: 0.130409%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.6538 end: 8.9065 delta: 0.2528
P2 start: 26.5749 end: 27.3097 delta: 0.7347
P3 start: 44.387 end: 45.5328 delta: 1.1458
P4 start: 62.2581 end: 63.7032 delta: 1.4451
P5 start: 80.1894 end: 81.7923 delta: 1.6029

H3: -0.000688945 H19: 1.00297
H5: -0.000257596 H21: -0.976913
H7: -0.000298875 H23: -0.00431318
H9: -0.000508373 H25: 0.00104964
H11: 0.000467436 H27: 0.00115417
H13: 0.000266232 H29: 0.00179335
H15: 0.000273555 H31: -0.0010881
H17: 0.000669079 H33: -0.000539672

H19f: 0.0527877
H21f: -0.0465196
H23f: -0.000187529
H25f: 4.19854e-05
H27f: 4.27472e-05
H29f: 6.18397e-05
H31f: -3.50999e-05
H33f: -1.63537e-05

c1sd = -0.2228
c1ed = 0.03
c2sd = -0.0667
c2ed = -0.0487
c3sd = -0.0549
c3ed = -0.0253
c4sd = -0.0387
c4ed = 0.0
varx = 7.0361%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 10/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.1
Actual Amplitude: 0.100014
Actual Power: 0.0100028
Distortion 2H-18H: 0.0698077%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.6141 | end: 8.8953 | delta: 0.2812 |
| P2 start: 26.5151 | end: 27.3316 | delta: 0.8165 |
| P3 start: 44.3131 | end: 45.5862 | delta: 1.2731 |
| P4 start: 62.1696 | end: 63.7752 | delta: 1.6055 |
| P5 start: 80.0986 | end: 81.8793 | delta: 1.7806 |

| | | |
|------------------|-------------------|--------------------|
| H3: -0.00035335 | H19: 1.00366 | H19f: 0.052824 |
| H5: -0.000141593 | H21: -0.971486 | H21f: -0.0462612 |
| H7: -0.000130514 | H23: -0.00669809 | H23f: -0.000291221 |
| H9: -0.000283202 | H25: 0.000713882 | H25f: 2.85553e-05 |
| H11: 0.000285241 | H27: 0.000759029 | H27f: 2.81122e-05 |
| H13: 0.000142363 | H29: 0.00121817 | H29f: 4.20058e-05 |
| H15: 0.000110785 | H31: -0.000448061 | H31f: -1.44536e-05 |
| H17: 0.000362306 | H33: -5.19436e-05 | H33f: -1.57405e-06 |

c1sd = -0.2498
c1ed = 0.0314
c2sd = -0.0899
c2ed = -0.0634
c3sd = -0.0717
c3ed = -0.029
c4sd = -0.0552
c4ed = 0.0
varx = 7.0218%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 11/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.11
Actual Amplitude: 0.110018
Actual Power: 0.012104
Distortion 2H-18H: 0.0493088%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.579 end: 8.8884 delta: 0.3094
P2 start: 26.4623 end: 27.3605 delta: 0.8982
P3 start: 44.2419 end: 45.6423 delta: 1.4005
P4 start: 62.0835 end: 63.8499 delta: 1.7663
P5 start: 80.0077 end: 81.9667 delta: 1.959

| | | |
|------------------|-------------------|--------------------|
| H3: -0.000252468 | H19: 1.00329 | H19f: 0.0528046 |
| H5: -0.000103746 | H21: -0.966636 | H21f: -0.0460303 |
| H7: -7.91303e-05 | H23: -0.00861042 | H23f: -0.000374366 |
| H9: -0.000222193 | H25: 0.000635998 | H25f: 2.54399e-05 |
| H11: 0.000207756 | H27: 0.000644966 | H27f: 2.38876e-05 |
| H13: 7.1315e-05 | H29: 0.00107483 | H29f: 3.70632e-05 |
| H15: 6.17144e-05 | H31: -0.000179772 | H31f: -5.79908e-06 |
| H17: 0.000246868 | H33: 0.000198496 | H33f: 6.01503e-06 |

c1sd = -0.2718
c1ed = 0.0376
c2sd = -0.1046
c2ed = -0.0725
c3sd = -0.0837
c3ed = -0.0321
c4sd = -0.0666
c4ed = 0.0
varx = 7.0052%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 12/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.12
Actual Amplitude: 0.120012
Actual Power: 0.014403
Distortion 2H-18H: 0.0280697%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.5513 | end: 8.8889 | delta: 0.3376 |
| P2 start: 26.4118 | end: 27.3916 | delta: 0.9798 |
| P3 start: 44.1717 | end: 45.6994 | delta: 1.5277 |
| P4 start: 61.9978 | end: 63.9247 | delta: 1.9269 |
| P5 start: 79.9173 | end: 82.0547 | delta: 2.1373 |

| | | |
|------------------|------------------|--------------------|
| H3: -0.000153452 | H19: 1.00233 | H19f: 0.052754 |
| H5: -3.78151e-05 | H21: -0.961903 | H21f: -0.0458049 |
| H7: -5.04081e-05 | H23: -0.0106577 | H23f: -0.000463378 |
| H9: -0.000116003 | H25: 0.000502144 | H25f: 2.00857e-05 |
| H11: 9.70384e-05 | H27: 0.000590132 | H27f: 2.18567e-05 |
| H13: 4.09574e-05 | H29: 0.000789424 | H29f: 2.72215e-05 |
| H15: 3.35572e-05 | H31: 0.000175082 | H31f: 5.6478e-06 |
| H17: 0.000159987 | H33: 0.000337565 | H33f: 1.02292e-05 |

c1sd = -0.2864
c1ed = 0.0512
c2sd = -0.117
c2ed = -0.0795
c3sd = -0.0945
c3ed = -0.0345
c4sd = -0.0775
c4ed = 0.0
varx = 6.9866%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 13/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.13
Actual Amplitude: 0.130015
Actual Power: 0.016904
Distortion 2H-18H: 0.0254274%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.4278 end: 8.7939 delta: 0.3661
P2 start: 26.3355 end: 27.3971 delta: 1.0616
P3 start: 44.0876 end: 45.7429 delta: 1.6553
P4 start: 61.9054 end: 63.9937 delta: 2.0883
P5 start: 79.8238 end: 82.1403 delta: 2.3165

| | | |
|------------------|------------------|--------------------|
| H3: -0.000142425 | H19: 1.00587 | H19f: 0.0529407 |
| H5: -3.5256e-05 | H21: -0.95194 | H21f: -0.0453305 |
| H7: -1.81783e-05 | H23: -0.0122035 | H23f: -0.000530588 |
| H9: -0.000112331 | H25: 0.00087757 | H25f: 3.51028e-05 |
| H11: 9.72139e-05 | H27: 0.000940894 | H27f: 3.48479e-05 |
| H13: 3.02181e-05 | H29: 0.00121488 | H29f: 4.18923e-05 |
| H15: 2.41266e-05 | H31: 0.000627354 | H31f: 2.02372e-05 |
| H17: 0.000138682 | H33: 0.00084459 | H33f: 2.55936e-05 |

c1sd = -0.3977
c1ed = -0.0316
c2sd = -0.1582
c2ed = -0.1093
c3sd = -0.1238
c3ed = -0.0457
c4sd = -0.1009
c4ed = 0.0
varx = 6.9698%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.14
 Actual Amplitude: 0.140001
 Actual Power: 0.0196002
 Distortion 2H-18H: 0.00868315%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.4889 | end: 8.8828 | delta: 0.3939 |
| P2 start: 26.3114 | end: 27.4541 | delta: 1.1427 |
| P3 start: 44.03 | end: 45.812 | delta: 1.782 |
| P4 start: 61.8262 | end: 64.0746 | delta: 2.2484 |
| P5 start: 79.7353 | end: 82.2296 | delta: 2.4943 |

H3: -4.46309e-05
 H5: -6.17967e-06
 H7: -1.70367e-06
 H9: -4.33661e-05
 H11: 3.50378e-05
 H13: 1.18006e-05
 H15: -4.11978e-06
 H17: 4.73519e-05

H19: 0.99995
 H21: -0.951427
 H23: -0.0149316
 H25: 0.000460461
 H27: 0.00057436
 H29: 0.000689857
 H31: 0.000472795
 H33: 0.000558995

H19f: 0.0526289
 H21f: -0.0453061
 H23f: -0.000649198
 H25f: 1.84184e-05
 H27f: 2.12726e-05
 H29f: 2.37882e-05
 H31f: 1.52515e-05
 H33f: 1.69393e-05

c1sd = -0.3225
 c1ed = 0.0714
 c2sd = -0.1411
 c2ed = -0.0934
 c3sd = -0.1172
 c3ed = -0.0408
 c4sd = -0.0991
 c4ed = 0.0
 varx = 6.9447%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 15/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.15
Actual Amplitude: 0.150001
Actual Power: 0.0225004
Distortion 2H-18H: 0.00637487%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.4616 end: 8.8835 delta: 0.4219
P2 start: 26.263 end: 27.4871 delta: 1.2241
P3 start: 43.9597 end: 45.8689 delta: 1.9092
P4 start: 61.7408 end: 64.15 delta: 2.4092
P5 start: 79.6442 end: 82.3172 delta: 2.673

H3: -3.77765e-05
H5: -3.33917e-06
H7: -1.44553e-07
H9: -2.7714e-05
H11: 2.3871e-05
H13: 2.8021e-06
H15: -6.98191e-06
H17: 3.50881e-05

H19: 0.998175
H21: -0.946055
H23: -0.0171679
H25: 0.000463922
H27: 0.000607216
H29: 0.000691474
H31: 0.000553297
H33: 0.000624493

H19f: 0.0525355
H21f: -0.0450502
H23f: -0.00074643
H25f: 1.85569e-05
H27f: 2.24895e-05
H29f: 2.38439e-05
H31f: 1.78483e-05
H33f: 1.8924e-05

c1sd = -0.3365
c1ed = 0.0854
c2sd = -0.151
c2ed = -0.0989
c3sd = -0.1276
c3ed = -0.0437
c4sd = -0.1092
c4ed = 0.0
varx = 6.921%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 16/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.16
Actual Amplitude: 0.160002
Actual Power: 0.0256006
Distortion 2H-18H: 0.00751423%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.4028 | end: 8.8529 | delta: 0.4501 |
| P2 start: 26.2057 | end: 27.5111 | delta: 1.3054 |
| P3 start: 43.8844 | end: 45.9209 | delta: 2.0365 |
| P4 start: 61.6528 | end: 64.2232 | delta: 2.5704 |
| P5 start: 79.5519 | end: 82.404 | delta: 2.8521 |

| | | |
|------------------|------------------|--------------------|
| H3: -3.69964e-05 | H19: 0.997803 | H19f: 0.0525159 |
| H5: -1.89725e-06 | H21: -0.938712 | H21f: -0.0447006 |
| H7: 3.18467e-06 | H23: -0.0193674 | H23f: -0.000842063 |
| H9: -4.30571e-05 | H25: 0.000591544 | H25f: 2.36618e-05 |
| H11: 3.25551e-05 | H27: 0.000781668 | H27f: 2.89507e-05 |
| H13: 1.0143e-05 | H29: 0.000908735 | H29f: 3.13357e-05 |
| H15: -6.672e-06 | H31: 0.000707889 | H31f: 2.28351e-05 |
| H17: 3.46807e-05 | H33: 0.000802322 | H33f: 2.43128e-05 |

c1sd = -0.3824
c1ed = 0.0676
c2sd = -0.1711
c2ed = -0.1121
c3sd = -0.1449
c3ed = -0.0498
c4sd = -0.1241
c4ed = 0.0
varx = 6.8969%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.17
Actual Amplitude: 0.170001
Actual Power: 0.0289003
Distortion 2H-18H: 0.00215766%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.3961 end: 8.8741 delta: 0.478
P2 start: 26.1628 end: 27.5494 delta: 1.3866
P3 start: 43.8165 end: 45.98 delta: 2.1635
P4 start: 61.5681 end: 64.2993 delta: 2.7312
P5 start: 79.461 end: 82.492 delta: 3.0309

H3: -1.01187e-05
H5: -8.9283e-07
H7: -2.1683e-06
H9: -1.24996e-05
H11: 9.78055e-06
H13: 4.56717e-06
H15: -3.27371e-06
H17: 8.61318e-06

H19: 0.994662
H21: -0.933809
H23: -0.0220319
H25: 0.000506342
H27: 0.000747001
H29: 0.000786599
H31: 0.000738615
H33: 0.000769741

H19f: 0.0523507
H21f: -0.0444671
H23f: -0.00095791
H25f: 2.02537e-05
H27f: 2.76667e-05
H29f: 2.71241e-05
H31f: 2.38263e-05
H33f: 2.33255e-05

c1sd = -0.3758
c1ed = 0.1022
c2sd = -0.1752
c2ed = -0.1126
c3sd = -0.1524
c3ed = -0.0511
c4sd = -0.1326
c4ed = 0.0
varx = 6.8694%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 18/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.18
Actual Amplitude: 0.180001
Actual Power: 0.0324004
Distortion 2H-18H: 0.00107257%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.3117 end: 8.8181 delta: 0.5063
P2 start: 26.0976 end: 27.5655 delta: 1.4679
P3 start: 43.7369 end: 46.0277 delta: 2.2909
P4 start: 61.4774 end: 64.37 delta: 2.8926
P5 start: 79.3678 end: 82.5783 delta: 3.2105

H3: -6.18367e-06 H19: 0.995213
H5: 1.18052e-06 H21: -0.924477
H7: -4.21614e-07 H23: -0.0243381
H9: -5.38729e-06 H25: 0.000752277
H11: 3.71787e-06 H27: 0.00105399
H13: 1.68646e-06 H29: 0.00109169
H15: -1.37727e-06 H31: 0.00108974
H17: 5.25777e-06 H33: 0.00111976

H19f: 0.0523796
H21f: -0.0440227
H23f: -0.00105818
H25f: 3.00911e-05
H27f: 3.90366e-05
H29f: 3.76444e-05
H31f: 3.51528e-05
H33f: 3.3932e-05

c1sd = -0.4477
c1ed = 0.0586
c2sd = -0.2044
c2ed = -0.1325
c3sd = -0.1759
c3ed = -0.0595
c4sd = -0.1527
c4ed = 0.0
varx = 6.8431%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 19/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.19
Actual Amplitude: 0.190001
Actual Power: 0.0361005
Distortion 2H-18H: 0.00233167%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.3258 end: 8.8597 delta: 0.534
P2 start: 26.0607 end: 27.6095 delta: 1.5488
P3 start: 43.6716 end: 46.0892 delta: 2.4176
P4 start: 61.3942 end: 64.4475 delta: 3.0533
P5 start: 79.277 end: 82.6665 delta: 3.3895

H3: -1.33141e-05
H5: 2.55631e-06
H7: -1.31239e-06
H9: -1.00743e-05
H11: 9.94928e-06
H13: 4.30148e-07
H15: -1.73084e-06
H17: 1.24291e-05

H19: 0.990632
H21: -0.920146
H23: -0.0273048
H25: 0.000546859
H27: 0.000910449
H29: 0.000957322
H31: 0.000920362
H33: 0.000961521

H19f: 0.0521386
H21f: -0.0438165
H23f: -0.00118717
H25f: 2.18743e-05
H27f: 3.37203e-05
H29f: 3.30111e-05
H31f: 2.96891e-05
H33f: 2.9137e-05

c1sd = -0.4201
c1ed = 0.1139
c2sd = -0.2017
c2ed = -0.128
c3sd = -0.1797
c3ed = -0.0595
c4sd = -0.1583
c4ed = 0.0
varx = 6.8115%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 20/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.2
Actual Amplitude: 0.200001
Actual Power: 0.0400006
Distortion 2H-18H: 0.00140769%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.2373 | end: 8.7996 | delta: 0.5623 |
| P2 start: 25.9941 | end: 27.624 | delta: 1.63 |
| P3 start: 43.5907 | end: 46.1357 | delta: 2.545 |
| P4 start: 61.3025 | end: 64.5175 | delta: 3.215 |
| P5 start: 79.1833 | end: 82.7527 | delta: 3.5695 |

| | | |
|-------------------|------------------|-------------------|
| H3: -5.81827e-06 | H19: 0.991002 | H19f: 0.052158 |
| H5: -7.58904e-08 | H21: -0.910004 | H21f: -0.0433335 |
| H7: 1.51781e-06 | H23: -0.0298094 | H23f: -0.00129606 |
| H9: -8.68524e-06 | H25: 0.000828845 | H25f: 3.31538e-05 |
| H11: 5.62279e-06 | H27: 0.00127154 | H27f: 4.70942e-05 |
| H13: 1.86807e-06 | H29: 0.00132848 | H29f: 4.58095e-05 |
| H15: -2.32731e-06 | H31: 0.0013202 | H31f: 4.25871e-05 |
| H17: 6.7855e-06 | H33: 0.00136505 | H33f: 4.13652e-05 |

c1sd = -0.4963
c1ed = 0.066
c2sd = -0.2327
c2ed = -0.1491
c3sd = -0.205
c3ed = -0.0686
c4sd = -0.1801
c4ed = 0.0
varx = 6.7823%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 21/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.21
Actual Amplitude: 0.21
Actual Power: 0.0441
Distortion 2H-18H: 0.00155931%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.1803 end: 8.7708 delta: 0.5905
P2 start: 25.9361 end: 27.6471 delta: 1.711
P3 start: 43.5141 end: 46.1862 delta: 2.6721
P4 start: 61.2128 end: 64.5892 delta: 3.3764
P5 start: 79.0902 end: 82.8395 delta: 3.7493

H3: 1.03597e-05 H19: 0.989634
H5: 3.54158e-06 H21: -0.901232
H7: 6.71145e-07 H23: -0.0326297
H9: 4.77832e-06 H25: 0.00095614
H11: -3.21962e-06 H27: 0.00149895
H13: -2.05712e-06 H29: 0.00153396
H15: -1.20462e-06 H31: 0.00159798
H17: -9.16219e-06 H33: 0.00163369

H19f: 0.052086
H21f: -0.0429158
H23f: -0.00141868
H25f: 3.82456e-05
H27f: 5.55166e-05
H29f: 5.28951e-05
H31f: 5.15477e-05
H33f: 4.95059e-05

c1sd = -0.5407
c1ed = 0.0498
c2sd = -0.2541
c2ed = -0.1626
c3sd = -0.2247
c3ed = -0.075
c4sd = -0.198
c4ed = 0.0
varx = 6.7504%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 22/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.22
Actual Amplitude: 0.22
Actual Power: 0.0484001
Distortion 2H-18H: 0.00358308%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.1825 end: 8.8006 delta: 0.6181
P2 start: 25.8948 end: 27.6865 delta: 1.7916
P3 start: 43.4459 end: 46.2447 delta: 2.7988
P4 start: 61.1274 end: 64.6648 delta: 3.5374
P5 start: 78.9985 end: 82.9273 delta: 3.9288

H3: 2.23073e-05
H5: 1.93177e-06
H7: 2.95679e-06
H9: 1.27251e-05
H11: -7.15005e-06
H13: -5.65202e-06
H15: 4.36948e-07
H17: -2.29905e-05

H19: 0.985193
H21: -0.895324
H23: -0.0359761
H25: 0.000752617
H27: 0.00138334
H29: 0.00140467
H31: 0.00149586
H33: 0.00152229

H19f: 0.0518523
H21f: -0.0426345
H23f: -0.00156418
H25f: 3.01047e-05
H27f: 5.12347e-05
H29f: 4.8437e-05
H31f: 4.82537e-05
H33f: 4.61301e-05

c1sd = -0.5252
c1ed = 0.0929
c2sd = -0.2569
c2ed = -0.1618
c3sd = -0.2329
c3ed = -0.0765
c4sd = -0.2078
c4ed = 0.0
varx = 6.7148%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.23
 Actual Amplitude: 0.229998
 Actual Power: 0.052899
 Distortion 2H-18H: 0.00158241%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.1273 | end: 8.7734 | delta: 0.6462 |
| P2 start: 25.8376 | end: 27.7099 | delta: 1.8723 |
| P3 start: 43.3692 | end: 46.2949 | delta: 2.9257 |
| P4 start: 61.0376 | end: 64.7365 | delta: 3.699 |
| P5 start: 78.9051 | end: 83.0141 | delta: 4.1091 |

| | | |
|-------------------|------------------|-------------------|
| H3: 9.78893e-06 | H19: 0.983315 | H19f: 0.0517534 |
| H5: 4.48751e-06 | H21: -0.886137 | H21f: -0.042197 |
| H7: -1.13131e-06 | H23: -0.0389532 | H23f: -0.00169362 |
| H9: 6.41597e-06 | H25: 0.000857643 | H25f: 3.43057e-05 |
| H11: -3.14966e-06 | H27: 0.00162262 | H27f: 6.00969e-05 |
| H13: -1.24371e-06 | H29: 0.00166162 | H29f: 5.72972e-05 |
| H15: 9.01902e-07 | H31: 0.0017329 | H31f: 5.58999e-05 |
| H17: -8.92844e-06 | H33: 0.00176793 | H33f: 5.35736e-05 |

c1sd = -0.5678
 c1ed = 0.0783
 c2sd = -0.2776
 c2ed = -0.1749
 c3sd = -0.2526
 c3ed = -0.0832
 c4sd = -0.2259
 c4ed = 0.0
 varx = 6.6797%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|---------------|
| Desired Amplitude: | 0.24 |
| Actual Amplitude: | 0.239999 |
| Actual Power: | 0.0575997 |
| Distortion 2H-18H: | 0.0003804459% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | | | |
|-----------|---------|------|---------|--------|--------|
| P1 start: | 8.1013 | end: | 8.7752 | delta: | 0.6739 |
| P2 start: | 25.7882 | end: | 27.7411 | delta: | 1.9529 |
| P3 start: | 43.2964 | end: | 46.3488 | delta: | 3.0524 |
| P4 start: | 60.9495 | end: | 64.81 | delta: | 3.8604 |
| P5 start: | 78.8122 | end: | 83.1014 | delta: | 4.2892 |

| | |
|-------------------|------------------|
| H3: 2.95133e-06 | H19: 0.97986 |
| H5: 1.01188e-06 | H21: -0.878195 |
| H7: 9.03467e-07 | H23: -0.0422762 |
| H9: 7.72966e-07 | H25: 0.000789041 |
| H11: -3.16213e-07 | H27: 0.00167962 |
| H13: -2.67565e-07 | H29: 0.00173685 |
| H15: -1.07513e-06 | H31: 0.0017879 |
| H17: -1.41366e-06 | H33: 0.00183289 |

| |
|-------------------|
| H19f: 0.0515716 |
| H21f: -0.0418188 |
| H23f: -0.0018381 |
| H25f: 3.15616e-05 |
| H27f: 6.22082e-05 |
| H29f: 5.98914e-05 |
| H31f: 5.76742e-05 |
| H33f: 5.55421e-05 |

| |
|----------------|
| c1sd = -0.5809 |
| c1ed = 0.093 |
| c2sd = -0.2896 |
| c2ed = -0.1811 |
| c3sd = -0.2672 |
| c3ed = -0.0876 |
| c4sd = -0.2405 |
| c4ed = 0.0 |
| varx = 6.6422% |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 25/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.25
Actual Amplitude: 0.25
Actual Power: 0.0625001
Distortion 2H-18H: 0.00127116%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.2488 end: 8.9487 delta: 0.6999
P2 start: 25.788 end: 27.8203 delta: 2.0324
P3 start: 43.2487 end: 46.4264 delta: 3.1777
P4 start: 60.8745 end: 64.8947 delta: 4.0202
P5 start: 78.724 end: 83.1917 delta: 4.4677

H3: 6.07128e-06
H5: 1.27497e-06
H7: -3.4693e-07
H9: 5.8689e-06
H11: -4.82942e-06
H13: -1.1909e-06
H15: 1.61901e-06
H17: -7.82123e-06

H19: 0.967887
H21: -0.879158
H23: -0.047033
H25: -0.000208463
H27: 0.000806648
H29: 0.000819769
H31: 0.000864569
H33: 0.000863013

H19f: 0.0509414
H21f: -0.0418647
H23f: -0.00204491
H25f: -8.33853e-06
H27f: 2.98758e-05
H29f: 2.82679e-05
H31f: 2.78893e-05
H33f: 2.61519e-05

c1sd = -0.4186
c1ed = 0.2813
c2sd = -0.2466
c2ed = -0.1451
c3sd = -0.2476
c3ed = -0.0772
c4sd = -0.2307
c4ed = 0.0
varx = 6.5969%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 26/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.26
Actual Amplitude: 0.26
Actual Power: 0.0676
Distortion 2H-18H: 0.000674945%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 8.0558 | end: 8.785 | delta: 0.7292 |
| P2 start: 25.6904 | end: 27.8039 | delta: 2.1135 |
| P3 start: 43.1505 | end: 46.4561 | delta: 3.3056 |
| P4 start: 60.7727 | end: 64.9561 | delta: 4.1834 |
| P5 start: 78.6259 | end: 83.276 | delta: 4.6501 |

| | | |
|-------------------|------------------|-------------------|
| H3: 3.50266e-06 | H19: 0.972178 | H19f: 0.0511672 |
| H5: 2.33511e-06 | H21: -0.861757 | H21f: -0.041036 |
| H7: -7.5057e-07 | H23: -0.0493437 | H23f: -0.00214538 |
| H9: 2.75672e-06 | H25: 0.000546088 | H25f: 2.18435e-05 |
| H11: -1.59212e-06 | H27: 0.00175703 | H27f: 6.50751e-05 |
| H13: 2.91888e-07 | H29: 0.00181531 | H29f: 6.25971e-05 |
| H15: -1.20647e-06 | H31: 0.00187779 | H31f: 6.0574e-05 |
| H17: -3.94908e-06 | H33: 0.00191543 | H33f: 5.80432e-05 |

c1sd = -0.6008
c1ed = 0.1284
c2sd = -0.3129
c2ed = -0.1927
c3sd = -0.2971
c3ed = -0.0963
c4sd = -0.2712
c4ed = 0.0
varx = 6.5625%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.27
Actual Amplitude: 0.27
Actual Power: 0.0729
Distortion 2H-18H: 5.15853e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.9685 end: 8.7261 delta: 0.7576
P2 start: 25.6234 end: 27.8174 delta: 2.194
P3 start: 43.0679 end: 46.5005 delta: 3.4326
P4 start: 60.6789 end: 65.0245 delta: 4.3456
P5 start: 78.5307 end: 83.3622 delta: 4.8316

H3: 0.0
H5: -1.12431e-07
H7: -3.21232e-07
H9: 9.36926e-08
H11: -2.55525e-08
H13: 2.81078e-07
H15: -1.49908e-07
H17: 1.98408e-07

H19: 0.971091
H21: -0.849744
H23: -0.0524455
H25: 0.000826638
H27: 0.00223052
H29: 0.0023208
H31: 0.00239579
H33: 0.00245865

H19f: 0.05111101
H21f: -0.040464
H23f: -0.00228024
H25f: 3.30655e-05
H27f: 8.26118e-05
H29f: 8.00276e-05
H31f: 7.72835e-05
H33f: 7.45045e-05

c1sd = -0.676
c1ed = 0.0816
c2sd = -0.3451
c2ed = -0.2142
c3sd = -0.3255
c3ed = -0.1062
c4sd = -0.2966
c4ed = 0.0
varx = 6.5229%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.28
Actual Amplitude: 0.28
Actual Power: 0.0784
Distortion 2H-18H: 8.00232e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.9472 | end: 8.7323 | delta: 0.7851 |
| P2 start: 25.5744 | end: 27.8484 | delta: 2.274 |
| P3 start: 42.9943 | end: 46.5533 | delta: 3.559 |
| P4 start: 60.5897 | end: 65.097 | delta: 4.5073 |
| P5 start: 78.437 | end: 83.4495 | delta: 5.0125 |

| | | |
|-------------------|------------------|-------------------|
| H3: -9.03464e-08 | H19: 0.966751 | H19f: 0.0508816 |
| H5: -1.08416e-07 | H21: -0.840906 | H21f: -0.0400432 |
| H7: 3.87199e-08 | H23: -0.0562338 | H23f: -0.00244495 |
| H9: 6.62544e-07 | H25: 0.000652099 | H25f: 2.6084e-05 |
| H11: -1.72484e-07 | H27: 0.00225963 | H27f: 8.36902e-05 |
| H13: -2.5019e-07 | H29: 0.00235424 | H29f: 8.11806e-05 |
| H15: 2.89109e-07 | H31: 0.00243317 | H31f: 7.84894e-05 |
| H17: 6.37744e-08 | H33: 0.00249422 | H33f: 7.55824e-05 |

c1sd = -0.6847
c1ed = 0.1005
c2sd = -0.3572
c2ed = -0.2201
c3sd = -0.3415
c3ed = -0.1109
c4sd = -0.3133
c4ed = 0.0
varx = 6.4795%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 29/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.29
Actual Amplitude: 0.29
Actual Power: 0.0841
Distortion 2H-18H: 0.00026057%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.1099 end: 8.9201 delta: 0.8102
P2 start: 25.5769 end: 27.9296 delta: 2.3528
P3 start: 42.9471 end: 46.6308 delta: 3.6836
P4 start: 60.5144 end: 65.1813 delta: 4.6669
P5 start: 78.3483 end: 83.5396 delta: 5.1913

H3: 1.04677e-06 H19: 0.953658
H5: -4.18709e-07 H21: -0.841479
H7: 2.24308e-07 H23: -0.0617748
H9: 1.10493e-06 H25: -0.00066357
H11: -6.42337e-07 H27: 0.00113841
H13: -6.44167e-07 H29: 0.0011918
H15: 9.76987e-07 H31: 0.0012256
H17: -1.57016e-06 H33: 0.00123315

H19f: 0.0501925
H21f: -0.0400704
H23f: -0.00268586
H25f: -2.65428e-05
H27f: 4.21635e-05
H29f: 4.10964e-05
H31f: 3.95355e-05
H33f: 3.7368e-05

c1sd = -0.5071
c1ed = 0.303
c2sd = -0.3117
c2ed = -0.1818
c3sd = -0.3218
c3ed = -0.1003
c4sd = -0.3043
c4ed = 0.0
varx = 6.4282%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 30/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.3
Actual Amplitude: 0.3
Actual Power: 0.09
Distortion 2H-18H: 0.000118226%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.9087 end: 8.7486 delta: 0.84
P2 start: 25.4769 end: 27.9104 delta: 2.4335
P3 start: 42.8467 end: 46.6581 delta: 3.8114
P4 start: 60.4104 end: 65.2412 delta: 4.8308
P5 start: 78.2489 end: 83.624 delta: 5.3751

H3: 7.5891e-07
H5: 2.02376e-07
H7: 1.44554e-07
H9: 5.34048e-07
H11: -9.19891e-08
H13: -3.30807e-07
H15: -5.0594e-08
H17: -5.95224e-07

H19: 0.957391
H21: -0.822631
H23: -0.0641429
H25: 0.000199867
H27: 0.00228257
H29: 0.00239126
H31: 0.00247143
H33: 0.00252607

H19f: 0.050389
H21f: -0.0391729
H23f: -0.00278882
H25f: 7.99466e-06
H27f: 8.45395e-05
H29f: 8.24574e-05
H31f: 7.97235e-05
H33f: 7.65475e-05

c1sd = -0.6978
c1ed = 0.1421
c2sd = -0.3812
c2ed = -0.2316
c3sd = -0.3747
c3ed = -0.1206
c4sd = -0.3484
c4ed = 0.0
varx = 6.3885%.

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and development assistance available via done@tinaja.com or www.tinaja.com/magsn01.html

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 31/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.31
Actual Amplitude: 0.31
Actual Power: 0.0961001
Distortion 2H-18H: 0.0001125899%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.8719 end: 8.7394 delta: 0.8675
P2 start: 25.423 end: 27.9362 delta: 2.5132
P3 start: 42.7698 end: 46.7075 delta: 3.9377
P4 start: 60.3189 end: 65.3118 delta: 4.9929
P5 start: 78.154 end: 83.7109 delta: 5.5569

| | | |
|------------------|------------------|-------------------|
| H3: -6.52825e-07 | H19: 0.953259 | H19f: 0.0501715 |
| H5: -5.38581e-07 | H21: -0.812184 | H21f: -0.0386754 |
| H7: -2.79782e-07 | H23: -0.0680493 | H23f: -0.00295866 |
| H9: -2.99212e-07 | H25: 6.17899e-05 | H25f: 2.4716e-06 |
| H11: 3.11576e-07 | H27: 0.0024219 | H27f: 8.97e-05 |
| H13: 1.31821e-07 | H29: 0.00254461 | H29f: 8.77452e-05 |
| H15: 3.59054e-07 | H31: 0.00263088 | H31f: 8.48671e-05 |
| H17: 3.74415e-07 | H33: 0.00268669 | H33f: 8.14148e-05 |

c1sd = -0.7222
c1ed = 0.1453
c2sd = -0.3991
c2ed = -0.2417
c3sd = -0.3956
c3ed = -0.1271
c4sd = -0.3694
c4ed = 0.0
varx = 6.3417%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.32
 Actual Amplitude: 0.32
 Actual Power: 0.1024
 Distortion 2H-18H: 0.00015624%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.6202 | end: 8.5197 | delta: 0.8994 |
| P2 start: 25.3115 | end: 27.9055 | delta: 2.594 |
| P3 start: 42.6629 | end: 46.7287 | delta: 4.0658 |
| P4 start: 60.211 | end: 65.3686 | delta: 5.1576 |
| P5 start: 78.0528 | end: 83.7948 | delta: 5.742 |

H3: -1.02769e-06
 H5: 9.48637e-08
 H7: -1.694e-07
 H9: -5.27021e-08
 H11: -1.078e-07
 H13: -1.09458e-07
 H15: 1.10674e-07
 H17: 1.14395e-06

H19: 0.958399
 H21: -0.790459
 H23: -0.0695649
 H25: 0.00170614
 H27: 0.00444928
 H29: 0.00469945
 H31: 0.00491266
 H33: 0.00509346

H19f: 0.0504421
 H21f: -0.0376409
 H23f: -0.00302456
 H25f: 6.82457e-05
 H27f: 0.000164788
 H29f: 0.00016205
 H31f: 0.000158473
 H33f: 0.000154347

c1sd = -0.9639
 c1ed = -0.0645
 c2sd = -0.4816
 c2ed = -0.3014
 c3sd = -0.4574
 c3ed = -0.151
 c4sd = -0.4204
 c4ed = 0.0
 varx = 6.3011%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.33
 Actual Amplitude: 0.33
 Actual Power: 0.1089
 Distortion 2H-18H: 6.05998e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.6825 | end: 8.6074 | delta: 0.9249 |
| P2 start: 25.2835 | end: 27.9562 | delta: 2.6727 |
| P3 start: 42.5989 | end: 46.7899 | delta: 4.1909 |
| P4 start: 60.1258 | end: 65.4446 | delta: 5.3187 |
| P5 start: 77.96 | end: 83.8832 | delta: 5.9231 |

| | | |
|-------------------|------------------|-------------------|
| H3: 1.53315e-07 | H19: 0.949577 | H19f: 0.0499777 |
| H5: 4.59945e-08 | H21: -0.784557 | H21f: -0.0373598 |
| H7: -6.57065e-08 | H23: -0.0747553 | H23f: -0.00325023 |
| H9: 4.59945e-07 | H25: 0.000653711 | H25f: 2.61484e-05 |
| H11: -1.67253e-07 | H27: 0.00368685 | H27f: 0.00013655 |
| H13: 1.59212e-07 | H29: 0.0038973 | H29f: 0.00013439 |
| H15: -2.14641e-07 | H31: 0.00406138 | H31f: 0.000131012 |
| H17: 1.62334e-07 | H33: 0.00417862 | H33f: 0.000126625 |

c1sd = -0.8883
 c1ed = 0.0366
 c2sd = -0.4709
 c2ed = -0.2894
 c3sd = -0.461
 c3ed = -0.1502
 c4sd = -0.4296
 c4ed = 0.0
 varx = 6.2483%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 34/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.34
Actual Amplitude: 0.34
Actual Power: 0.1156
Distortion 2H-18H: 3.87104e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.7281 | end: 8.6788 | delta: 0.9507 |
| P2 start: 25.2512 | end: 28.0025 | delta: 2.7513 |
| P3 start: 42.5325 | end: 46.8485 | delta: 4.3161 |
| P4 start: 60.0392 | end: 65.5193 | delta: 5.4801 |
| P5 start: 77.8665 | end: 83.9713 | delta: 6.1048 |

| | | |
|-------------------|-------------------|--------------------|
| H3: -7.44029e-08 | H19: 0.941313 | H19f: 0.0495428 |
| H5: 0.0 | H21: -0.777571 | H21f: -0.0370272 |
| H7: 1.27548e-07 | H23: -0.0798148 | H23f: -0.00347021 |
| H9: 7.44029e-08 | H25: -0.000239298 | H25f: -9.57191e-06 |
| H11: -1.01459e-07 | H27: 0.00312484 | H27f: 0.000115735 |
| H13: 2.40379e-07 | H29: 0.00331494 | H29f: 0.000114308 |
| H15: -2.08328e-07 | H31: 0.00344496 | H31f: 0.000111128 |
| H17: 1.05039e-07 | H33: 0.00351739 | H33f: 0.000106588 |

c1sd = -0.8296
c1ed = 0.1211
c2sd = -0.4652
c2ed = -0.2811
c3sd = -0.4682
c3ed = -0.1508
c4sd = -0.4415
c4ed = 0.0
varx = 6.1948%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.35
 Actual Amplitude: 0.35
 Actual Power: 0.1225
 Distortion 2H-18H: 0.000134608%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.7033 | end: 8.6812 | delta: 0.9779 |
| P2 start: 25.1998 | end: 28.03 | delta: 2.8302 |
| P3 start: 42.4559 | end: 46.8976 | delta: 4.4417 |
| P4 start: 59.9468 | end: 65.5893 | delta: 5.6424 |
| P5 start: 77.7708 | end: 84.0584 | delta: 6.2877 |

| | | |
|------------------|-------------------|--------------------|
| H3: -7.22771e-07 | H19: 0.935967 | H19f: 0.0492614 |
| H5: 8.67326e-08 | H21: -0.766727 | H21f: -0.0365108 |
| H7: -3.09759e-08 | H23: -0.0841189 | H23f: -0.00365734 |
| H9: -5.0594e-07 | H25: -0.000574274 | H25f: -2.29709e-05 |
| H11: 1.97119e-07 | H27: 0.00317493 | H27f: 0.00011759 |
| H13: 4.83701e-07 | H29: 0.00338226 | H29f: 0.00011663 |
| H15: 0.0 | H31: 0.00351484 | H31f: 0.000113382 |
| H17: 8.67326e-07 | H33: 0.00358073 | H33f: 0.000108507 |

c1sd = -0.8421
 c1ed = 0.1358
 c2sd = -0.481
 c2ed = -0.2893
 c3sd = -0.4893
 c3ed = -0.1572
 c4sd = -0.4639
 c4ed = 0.0
 varx = 6.1426%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 36/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.36
Actual Amplitude: 0.36
Actual Power: 0.1296
Distortion 2H-18H: 6.38273e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.669 end: 8.6742 delta: 1.0052
P2 start: 25.1456 end: 28.0545 delta: 2.909
P3 start: 42.3776 end: 46.945 delta: 4.5674
P4 start: 59.8533 end: 65.6583 delta: 5.8049
P5 start: 77.6744 end: 84.1454 delta: 6.471

| | | |
|-------------------|------------------|-------------------|
| H3: -1.40539e-07 | H19: 0.930872 | H19f: 0.0489932 |
| H5: -2.5297e-07 | H21: -0.755149 | H21f: -0.0359595 |
| H7: 0.0 | H23: -0.0883703 | H23f: -0.00384219 |
| H9: -1.17116e-07 | H25: -0.00086455 | H25f: -3.4582e-05 |
| H11: 1.53315e-07 | H27: 0.00330305 | H27f: 0.000122335 |
| H13: -3.89185e-07 | H29: 0.00353488 | H29f: 0.000121893 |
| H15: 3.09186e-07 | H31: 0.00367669 | H31f: 0.000118603 |
| H17: 1.98408e-07 | H33: 0.00373919 | H33f: 0.000113309 |

c1sd = -0.8643
c1ed = 0.1409
c2sd = -0.5
c2ed = -0.2999
c3sd = -0.5128
c3ed = -0.1646
c4sd = -0.4884
c4ed = 0.0
varx = 6.0895%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 37/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.37
Actual Amplitude: 0.37
Actual Power: 0.1369
Distortion 2H-18H: 4.66833e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.6176 | end: 8.6504 | delta: 1.0328 |
| P2 start: 25.0866 | end: 28.0743 | delta: 2.9877 |
| P3 start: 42.2965 | end: 46.9896 | delta: 4.6931 |
| P4 start: 59.7581 | end: 65.7259 | delta: 5.9678 |
| P5 start: 77.5772 | end: 84.2322 | delta: 6.655 |

| | | |
|-------------------|------------------|--------------------|
| H3: 2.05111e-07 | H19: 0.926332 | H19f: 0.0487543 |
| H5: -4.10222e-08 | H21: -0.742465 | H21f: -0.0353555 |
| H7: -1.17206e-07 | H23: -0.0924538 | H23f: -0.00401973 |
| H9: 0.0 | H25: -0.00104054 | H25f: -4.16214e-05 |
| H11: -2.42404e-07 | H27: 0.00358617 | H27f: 0.000132821 |
| H13: 2.84e-07 | H29: 0.00385015 | H29f: 0.000132764 |
| H15: -1.36741e-07 | H31: 0.00401297 | H31f: 0.000129451 |
| H17: 4.82614e-08 | H33: 0.00407754 | H33f: 0.000123562 |

c1sd = -0.9038
c1ed = 0.129
c2sd = -0.5245
c2ed = -0.3146
c3sd = -0.5402
c3ed = -0.1737
c4sd = -0.516
c4ed = 0.0
varx = 6.0359%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 38/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.38
Actual Amplitude: 0.38
Actual Power: 0.1444
Distortion 2H-18H: 8.79651e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.6212 end: 8.6803 delta: 1.0591
P2 start: 25.0421 end: 28.1079 delta: 3.0658
P3 start: 42.2227 end: 47.0408 delta: 4.818
P4 start: 59.6665 end: 65.7965 delta: 6.13
P5 start: 77.4812 end: 84.3197 delta: 6.8385

H3: 1.99713e-07
H5: -3.99426e-08
H7: -6.2767e-07
H9: 3.10665e-07
H11: 1.08934e-07
H13: -2.61163e-07
H15: 3.99426e-07
H17: 4.69913e-08

H19: 0.919303
H21: -0.73234
H23: -0.0972866
H25: -0.00172426
H27: 0.0033773
H29: 0.00364993
H31: 0.00380224
H33: 0.00383711

H19f: 0.0483843
H21f: -0.0348733
H23f: -0.00422985
H25f: -6.89704e-05
H27f: 0.000125085
H29f: 0.00012586
H31f: 0.000122653
H33f: 0.000116276

c1sd = -0.8878
c1ed = 0.1713
c2sd = -0.533
c2ed = -0.317
c3sd = -0.5579
c3ed = -0.1786
c4sd = -0.537
c4ed = 0.0
varx = 5.9792%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 39/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.39
Actual Amplitude: 0.39
Actual Power: 0.1521
Distortion 2H-18H: 6.28924e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.7349 end: 8.8176 delta: 1.0828
P2 start: 25.0274 end: 28.1702 delta: 3.1428
P3 start: 42.1641 end: 47.1057 delta: 4.9416
P4 start: 59.5829 end: 65.8736 delta: 6.2907
P5 start: 77.3882 end: 84.4086 delta: 7.0204

H3: 0.0
H5: -7.78369e-08
H7: 3.05788e-07
H9: -3.02699e-07
H11: 2.83043e-07
H13: 3.2931e-07
H15: 5.18913e-08
H17: 1.14466e-07

H19: 0.907451
H21: -0.727616
H23: -0.103569
H25: -0.00330774
H27: 0.00229073
H29: 0.00252923
H31: 0.00262129
H33: 0.0025747

H19f: 0.0477606
H21f: -0.0346484
H23f: -0.00450299
H25f: -0.00013231
H27f: 8.48417e-05
H29f: 8.72148e-05
H31f: 8.45577e-05
H33f: 7.80211e-05

c1sd = -0.7606
c1ed = 0.3222
c2sd = -0.5085
c2ed = -0.294
c3sd = -0.5554
c3ed = -0.1748
c4sd = -0.5436
c4ed = 0.0
varx = 5.9177%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 40/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.4
Actual Amplitude: 0.4
Actual Power: 0.16
Distortion 2H-18H: 6.06922e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.7519 end: 8.8604 delta: 1.1086
P2 start: 24.9863 end: 28.2067 delta: 3.2203
P3 start: 42.0916 end: 47.1576 delta: 5.066
P4 start: 59.4914 end: 65.9443 delta: 6.4528
P5 start: 77.292 end: 84.4963 delta: 7.2043

H3: 0.0 H19: 0.899578
H5: -7.5891e-08 H21: -0.717723
H7: -2.43935e-07 H23: -0.108691
H9: 1.68647e-07 H25: -0.00414081
H11: -1.55232e-07 H27: 0.00201467
H13: -7.29721e-08 H29: 0.00226516
H15: 4.30049e-07 H31: 0.00234855
H17: -2.4553e-07 H33: 0.00226482

H19f: 0.0473462
H21f: -0.0341773
H23f: -0.00472569
H25f: -0.000165632
H27f: 7.46173e-05
H29f: 7.81091e-05
H31f: 7.57597e-05
H33f: 6.8631e-05

c1sd = -0.7312
c1ed = 0.3774
c2sd = -0.5135
c2ed = -0.2935
c3sd = -0.5718
c3ed = -0.179
c4sd = -0.5643
c4ed = 0.0
varx = 5.8584%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 41/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.41
Actual Amplitude: 0.41
Actual Power: 0.1681
Distortion 2H-18H: 5.89927e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.5115 | end: 8.6518 | delta: 1.1403 |
| P2 start: 24.8753 | end: 28.1749 | delta: 3.2996 |
| P3 start: 41.9822 | end: 47.1755 | delta: 5.1933 |
| P4 start: 59.3797 | end: 65.9986 | delta: 6.619 |
| P5 start: 77.1876 | end: 84.5806 | delta: 7.393 |

| | | |
|-------------------|------------------|--------------------|
| H3: -6.17e-08 | H19: 0.902335 | H19f: 0.0474913 |
| H5: 1.4808e-07 | H21: -0.694476 | H21f: -0.0330703 |
| H7: -3.702e-07 | H23: -0.110462 | H23f: -0.00480269 |
| H9: 4.11334e-08 | H25: -0.00296826 | H25f: -0.000118731 |
| H11: -2.52409e-07 | H27: 0.00380952 | H27f: 0.000141093 |
| H13: 1.56623e-07 | H29: 0.00418689 | H29f: 0.000144376 |
| H15: 2.9616e-07 | H31: 0.00437959 | H31f: 0.000141277 |
| H17: -8.71059e-08 | H33: 0.00437679 | H33f: 0.00013263 |

c1sd = -0.962
c1ed = 0.1783
c2sd = -0.5969
c2ed = -0.353
c3sd = -0.6381
c3ed = -0.2043
c4sd = -0.6217
c4ed = 0.0
varx = 5.807%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.42
Actual Amplitude: 0.42
Actual Power: 0.1764
Distortion 2H-18H: 4.86573e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.5149 end: 8.6811 delta: 1.1662
P2 start: 24.8298 end: 28.2066 delta: 3.3768
P3 start: 41.9067 end: 47.2243 delta: 5.3175
P4 start: 59.286 end: 66.0676 delta: 6.7816
P5 start: 77.0901 end: 84.6681 delta: 7.578

| | | |
|------------------|------------------|--------------------|
| H3: -1.20462e-07 | H19: 0.894727 | H19f: 0.0470909 |
| H5: 1.80693e-07 | H21: -0.683428 | H21f: -0.0325442 |
| H7: -3.35572e-07 | H23: -0.115474 | H23f: -0.0050206 |
| H9: -1.20462e-07 | H25: -0.00382578 | H25f: -0.000153031 |
| H11: 1.14986e-07 | H27: 0.00357911 | H27f: 0.00013256 |
| H13: 4.16983e-08 | H29: 0.00397706 | H29f: 0.00013714 |
| H15: 4.81847e-08 | H31: 0.0041581 | H31f: 0.000134132 |
| H17: 2.1258e-07 | H33: 0.00411205 | H33f: 0.000124607 |

c1sd = -0.9465
c1ed = 0.2197
c2sd = -0.6072
c2ed = -0.3564
c3sd = -0.6588
c3ed = -0.2102
c4sd = -0.6464
c4ed = 0.0
varx = 5.7462%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.43
Actual Amplitude: 0.43
Actual Power: 0.1849
Distortion 2H-18H: 4.63803e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.4551 end: 8.6488 delta: 1.1937
P2 start: 24.7674 end: 28.2216 delta: 3.4543
P3 start: 41.8221 end: 47.2645 delta: 5.4423
P4 start: 59.1871 end: 66.1323 delta: 6.9452
P5 start: 76.9903 end: 84.7548 delta: 7.7645

| | | |
|-------------------|------------------|--------------------|
| H3: -3.52982e-07 | H19: 0.889529 | H19f: 0.0468173 |
| H5: -2.11789e-07 | H21: -0.668991 | H21f: -0.0318567 |
| H7: 1.26065e-07 | H23: -0.119603 | H23f: -0.00520014 |
| H9: -7.84404e-08 | H25: -0.00415397 | H25f: -0.000166159 |
| H11: -3.20892e-08 | H27: 0.00393057 | H27f: 0.000145577 |
| H13: 5.43049e-08 | H29: 0.00438827 | H29f: 0.00015132 |
| H15: 9.41284e-08 | H31: 0.00459838 | H31f: 0.000148335 |
| H17: 1.03818e-07 | H33: 0.00454411 | H33f: 0.0001377 |

c1sd = -0.9949
c1ed = 0.1988
c2sd = -0.6366
c2ed = -0.3744
c3sd = -0.6921
c3ed = -0.2214
c4sd = -0.6806
c4ed = 0.0
varx = 5.6866%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.44
 Actual Amplitude: 0.44
 Actual Power: 0.1936
 Distortion 2H-18H: 5.16278e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.5785 | end: 8.7944 | delta: 1.216 |
| P2 start: 24.7535 | end: 28.2834 | delta: 3.53 |
| P3 start: 41.7625 | end: 47.3273 | delta: 5.5647 |
| P4 start: 59.1016 | end: 66.2076 | delta: 7.1061 |
| P5 start: 76.8957 | end: 84.8438 | delta: 7.9481 |

H3: 1.7248e-07
 H5: 1.03488e-07
 H7: -2.95679e-07
 H9: 5.74932e-08
 H11: -6.27198e-08
 H13: 1.32677e-07
 H15: 2.5297e-07
 H17: -2.23209e-07

H19: 0.876808
 H21: -0.663549
 H23: -0.126409
 H25: -0.00614583
 H27: 0.00264319
 H29: 0.00306846
 H31: 0.00320426
 H33: 0.00303098

H19f: 0.0461478
 H21f: -0.0315976
 H23f: -0.00549604
 H25f: -0.000245833
 H27f: 9.7896e-05
 H29f: 0.000105809
 H31f: 0.000103363
 H33f: 9.18478e-05

c1sd = -0.8584
 c1ed = 0.3576
 c2sd = -0.6121
 c2ed = -0.3509
 c3sd = -0.6919
 c3ed = -0.2183
 c4sd = -0.6908
 c4ed = 0.0
 varx = 5.6198%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 45/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.45
Actual Amplitude: 0.45
Actual Power: 0.2025
Distortion 2H-18H: 6.07929e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.5775 end: 8.819 delta: 1.2415
P2 start: 24.7063 end: 28.3127 delta: 3.6064
P3 start: 41.6853 end: 47.3736 delta: 5.6884
P4 start: 59.006 end: 66.275 delta: 7.269
P5 start: 76.7968 end: 84.9312 delta: 8.1344

H3: -2.81078e-07
H5: -2.36105e-07
H7: -2.40924e-08
H9: -1.68647e-07
H11: 6.13261e-08
H13: 1.68647e-07
H15: 0.0
H17: 4.16656e-07

H19: 0.86898
H21: -0.651648
H23: -0.131456
H25: -0.00709391
H27: 0.00245939
H29: 0.00292288
H31: 0.00305456
H33: 0.0028295

H19f: 0.0457358
H21f: -0.0310308
H23f: -0.00571546
H25f: -0.000283757
H27f: 9.10884e-05
H29f: 0.000100789
H31f: 9.85342e-05
H33f: 8.57425e-05

c1sd = -0.8475
c1ed = 0.394
c2sd = -0.625
c2ed = -0.356
c3sd = -0.7157
c3ed = -0.2254
c4sd = -0.719
c4ed = 0.0
varx = 5.5564%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 46/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.46
Actual Amplitude: 0.46
Actual Power: 0.2116
Distortion 2H-18H: 4.01916e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.5565 end: 8.824 delta: 1.2675
P2 start: 24.6534 end: 28.3361 delta: 3.6827
P3 start: 41.6047 end: 47.4167 delta: 5.8121
P4 start: 58.9083 end: 66.3406 delta: 7.4323
P5 start: 76.6968 end: 85.0184 delta: 8.3216

| | | |
|-------------------|------------------|--------------------|
| H3: 5.49935e-08 | H19: 0.861827 | H19f: 0.0453593 |
| H5: 0.0 | H21: -0.638524 | H21f: -0.0304059 |
| H7: 0.0 | H23: -0.13623 | H23f: -0.00592302 |
| H9: -2.74967e-07 | H25: -0.00793318 | H25f: -0.000317327 |
| H11: 2.5497e-07 | H27: 0.00242927 | H27f: 8.9973e-05 |
| H13: -7.61448e-08 | H29: 0.00294434 | H29f: 0.000101529 |
| H15: 1.09987e-07 | H31: 0.00308239 | H31f: 9.94319e-05 |
| H17: 0.0 | H33: 0.00280795 | H33f: 8.50893e-05 |

c1sd = -0.857
c1ed = 0.4105
c2sd = -0.6445
c2ed = -0.366
c3sd = -0.7442
c3ed = -0.2344
c4sd = -0.7511
c4ed = 0.0
varx = 5.4928%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.47
 Actual Amplitude: 0.47
 Actual Power: 0.2209
 Distortion 2H-18H: 2.37691e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.4695 | end: 8.7647 | delta: 1.2952 |
| P2 start: 24.5824 | end: 28.3417 | delta: 3.7593 |
| P3 start: 41.5143 | end: 47.4507 | delta: 5.9364 |
| P4 start: 58.8048 | end: 66.4017 | delta: 7.5969 |
| P5 start: 76.5943 | end: 85.1049 | delta: 8.5106 |

| | | |
|-------------------|------------------|--------------------|
| H3: 5.38234e-08 | H19: 0.857137 | H19f: 0.0451125 |
| H5: -1.6147e-07 | H21: -0.621885 | H21f: -0.0296136 |
| H7: -2.30672e-08 | H23: -0.140003 | H23f: -0.00608709 |
| H9: -5.38234e-08 | H25: -0.00827004 | H25f: -0.000330802 |
| H11: -2.93582e-08 | H27: 0.00294046 | H27f: 0.000108906 |
| H13: -7.45247e-08 | H29: 0.0035402 | H29f: 0.000122076 |
| H15: 0.0 | H31: 0.0037198 | H31f: 0.000119994 |
| H17: 1.32975e-07 | H33: 0.00342162 | H33f: 0.000103686 |

| |
|-----------------|
| c1sd = -0.9333 |
| c1ed = 0.3619 |
| c2sd = -0.6843 |
| c2ed = -0.3915 |
| c3sd = -0.7861 |
| c3ed = -0.2489 |
| c4sd = -0.7934 |
| c4ed = 0.0 |
| varx = 5.4306%. |

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.48
 Actual Amplitude: 0.48
 Actual Power: 0.2304
 Distortion 2H-18H: 3.68182e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.2816 | end: 8.6081 | delta: 1.3265 |
| P2 start: 24.4852 | end: 28.3217 | delta: 3.8365 |
| P3 start: 41.4097 | end: 47.4716 | delta: 6.0619 |
| P4 start: 58.6932 | end: 66.4566 | delta: 7.7634 |
| P5 start: 76.4881 | end: 85.1903 | delta: 8.7022 |

| | | |
|-------------------|------------------|--------------------|
| H3: -5.27021e-08 | H19: 0.85605 | H19f: 0.0450553 |
| H5: -3.16212e-08 | H21: -0.60013 | H21f: -0.0285776 |
| H7: -6.77598e-08 | H23: -0.142064 | H23f: -0.00617671 |
| H9: 1.75674e-07 | H25: -0.00763152 | H25f: -0.000305261 |
| H11: -8.62398e-08 | H27: 0.00447859 | H27f: 0.000165874 |
| H13: -3.64861e-08 | H29: 0.00523718 | H29f: 0.000180592 |
| H15: 2.74051e-07 | H31: 0.0055344 | H31f: 0.000178529 |
| H17: 1.11604e-07 | H33: 0.00527986 | H33f: 0.000159996 |

| |
|----------------|
| c1sd = -1.1115 |
| c1ed = 0.215 |
| c2sd = -0.7536 |
| c2ed = -0.4395 |
| c3sd = -0.8471 |
| c3ed = -0.2715 |
| c4sd = -0.8502 |
| c4ed = 0.0 |
| varx = 5.371% |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 49/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.49
Actual Amplitude: 0.49
Actual Power: 0.2401
Distortion 2H-18H: 7.30734e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.3257 | end: 8.6757 | delta: 1.3499 |
| P2 start: 24.4485 | end: 28.36 | delta: 3.9114 |
| P3 start: 41.3366 | end: 47.5206 | delta: 6.184 |
| P4 start: 58.5985 | end: 66.5244 | delta: 7.926 |
| P5 start: 76.3886 | end: 85.2784 | delta: 8.8898 |

| | | |
|-------------------|------------------|--------------------|
| H3: -2.06506e-07 | H19: 0.845931 | H19f: 0.0445227 |
| H5: 3.40735e-07 | H21: -0.589661 | H21f: -0.0280791 |
| H7: -1.5488e-07 | H23: -0.147833 | H23f: -0.00642753 |
| H9: 3.26968e-07 | H25: -0.00926838 | H25f: -0.000370735 |
| H11: 0.0 | H27: 0.0037824 | H27f: 0.000140089 |
| H13: -2.62104e-07 | H29: 0.00456775 | H29f: 0.000157508 |
| H15: 0.0 | H31: 0.00482882 | H31f: 0.000155768 |
| H17: -4.19086e-07 | H33: 0.00445646 | H33f: 0.000135044 |

c1sd = -1.0555
c1ed = 0.2945
c2sd = -0.7557
c2ed = -0.4358
c3sd = -0.8664
c3ed = -0.2764
c4sd = -0.8771
c4ed = 0.0
varx = 5.3028%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 50/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.5
Actual Amplitude: 0.5
Actual Power: 0.25
Distortion 2H-18H: 3.90375e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.4504 | end: 8.8212 | delta: 1.3708 |
| P2 start: 24.4334 | end: 28.4187 | delta: 3.9853 |
| P3 start: 41.2745 | end: 47.5792 | delta: 6.3048 |
| P4 start: 58.5094 | end: 66.5966 | delta: 8.0871 |
| P5 start: 76.2911 | end: 85.3673 | delta: 9.0762 |

| | |
|-------------------|-----------------|
| H3: -5.0594e-08 | H19: 0.832616 |
| H5: 1.82138e-07 | H21: -0.583031 |
| H7: -1.30099e-07 | H23: -0.154913 |
| H9: -6.74587e-08 | H25: -0.0116501 |
| H11: 1.79379e-07 | H27: 0.00242089 |
| H13: -7.00532e-08 | H29: 0.00320638 |
| H15: 1.61901e-07 | H31: 0.00339472 |
| H17: -1.78567e-07 | H33: 0.00286176 |

| |
|--------------------|
| H19f: 0.0438219 |
| H21f: -0.0277634 |
| H23f: -0.00673534 |
| H25f: -0.000466005 |
| H27f: 8.96626e-05 |
| H29f: 0.000110565 |
| H31f: 0.000109507 |
| H33f: 8.67199e-05 |

c1sd = -0.9182
c1ed = 0.4527
c2sd = -0.7341
c2ed = -0.4139
c3sd = -0.8713
c3ed = -0.275
c4sd = -0.894
c4ed = 0.0
varx = 5.2312%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 51/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.51
Actual Amplitude: 0.51
Actual Power: 0.2601
Distortion 2H-18H: 4.61232e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.4069 end: 8.8038 delta: 1.3969
P2 start: 24.3732 end: 28.4335 delta: 4.0603
P3 start: 41.1883 end: 47.6158 delta: 6.4275
P4 start: 58.4067 end: 66.6582 delta: 8.2514
P5 start: 76.1877 end: 85.4544 delta: 9.2667

H3: -4.9602e-08 H19: 0.825591
H5: 0.0 H21: -0.567867
H7: -2.33838e-07 H23: -0.159248
H9: -4.9602e-08 H25: -0.0125746
H11: -8.11668e-08 H27: 0.00254189
H13: 2.51825e-07 H29: 0.00342064
H15: -1.19045e-07 H31: 0.0036338
H17: 2.62599e-07 H33: 0.00302276

H19f: 0.0434522
H21f: -0.0270413
H23f: -0.00692381
H25f: -0.000502983
H27f: 9.41441e-05
H29f: 0.000117953
H31f: 0.000117219
H33f: 9.15987e-05

c1sd = -0.9509
c1ed = 0.446
c2sd = -0.7629
c2ed = -0.4304
c3sd = -0.9086
c3ed = -0.2873
c4sd = -0.9351
c4ed = 0.0
varx = 5.1646%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.52
 Actual Amplitude: 0.52
 Actual Power: 0.2704
 Distortion 2H-18H: 5.24518e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.4723 | end: 8.8918 | delta: 1.4195 |
| P2 start: 24.3422 | end: 28.4762 | delta: 4.134 |
| P3 start: 41.1171 | end: 47.6655 | delta: 6.5484 |
| P4 start: 58.3119 | end: 66.7257 | delta: 8.4138 |
| P5 start: 76.0873 | end: 85.5427 | delta: 9.4554 |

| | |
|-------------------|-----------------|
| H3: 1.45944e-07 | H19: 0.8143 |
| H5: 0.0 | H21: -0.557967 |
| H7: 3.33587e-07 | H23: -0.16535 |
| H9: -1.62166e-07 | H25: -0.0144879 |
| H11: 1.7248e-07 | H27: 0.00176692 |
| H13: 7.85854e-08 | H29: 0.00270312 |
| H15: -1.94592e-07 | H31: 0.0028904 |
| H17: 2.06039e-07 | H33: 0.00214515 |

| |
|--------------------|
| H19f: 0.0428579 |
| H21f: -0.0265699 |
| H23f: -0.00718913 |
| H25f: -0.000579517 |
| H27f: 6.54415e-05 |
| H29f: 9.32112e-05 |
| H31f: 9.32388e-05 |
| H33f: 6.50047e-05 |

| |
|-----------------|
| c1sd = -0.8736 |
| c1ed = 0.5459 |
| c2sd = -0.7594 |
| c2ed = -0.4221 |
| c3sd = -0.9262 |
| c3ed = -0.2912 |
| c4sd = -0.9625 |
| c4ed = 0.0 |
| varx = 5.0936%. |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 53/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.53
Actual Amplitude: 0.53
Actual Power: 0.2809
Distortion 2H-18H: 3.53806e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.3337 | end: 8.782 | delta: 1.4483 |
| P2 start: 24.2559 | end: 28.4651 | delta: 4.2092 |
| P3 start: 41.0164 | end: 47.6883 | delta: 6.6719 |
| P4 start: 58.2002 | end: 66.7803 | delta: 8.5801 |
| P5 start: 75.9795 | end: 85.6289 | delta: 9.6493 |

| | |
|-------------------|-----------------|
| H3: -9.54604e-08 | H19: 0.810542 |
| H5: -2.00467e-07 | H21: -0.537755 |
| H7: 1.43191e-07 | H23: -0.168004 |
| H9: -4.77302e-08 | H25: -0.0147137 |
| H11: 1.30173e-07 | H27: 0.00264945 |
| H13: 4.40587e-08 | H29: 0.00373378 |
| H15: -7.63683e-08 | H31: 0.00399625 |
| H17: 1.6846e-07 | H33: 0.00319078 |

| |
|--------------------|
| H19f: 0.0426601 |
| H21f: -0.0256074 |
| H23f: -0.0073045 |
| H25f: -0.000588548 |
| H27f: 9.81278e-05 |
| H29f: 0.000128751 |
| H31f: 0.000128911 |
| H33f: 9.66904e-05 |

c1sd = -1.0026
c1ed = 0.4457
c2sd = -0.8179
c2ed = -0.461
c3sd = -0.9836
c3ed = -0.3118
c4sd = -1.0195
c4ed = 0.0
varx = 5.0289%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 54/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.54
Actual Amplitude: 0.54
Actual Power: 0.2916
Distortion 2H-18H: 4.1547e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|---------------|
| P1 start: 7.3182 | end: 8.7913 | delta: 1.4731 |
| P2 start: 24.2025 | end: 28.4854 | delta: 4.2829 |
| P3 start: 40.9326 | end: 47.7259 | delta: 6.7933 |
| P4 start: 58.0974 | end: 66.8416 | delta: 8.7443 |
| P5 start: 75.8751 | end: 85.7164 | delta: 9.8413 |

| | | |
|-------------------|-----------------|-------------------|
| H3: 1.40539e-07 | H19: 0.802023 | H19f: 0.0422117 |
| H5: -5.62155e-08 | H21: -0.523501 | H21f: -0.0249286 |
| H7: 2.0077e-08 | H23: -0.172671 | H23f: -0.00750744 |
| H9: -1.24923e-07 | H25: -0.0160692 | H25f: -0.00064277 |
| H11: 1.91644e-07 | H27: 0.00250463 | H27f: 9.27641e-05 |
| H13: 2.16214e-08 | H29: 0.00369494 | H29f: 0.000127412 |
| H15: -2.81078e-07 | H31: 0.00397492 | H31f: 0.000128223 |
| H17: 1.32272e-07 | H33: 0.00304297 | H33f: 9.22113e-05 |

c1sd = -1.0073
c1ed = 0.4657
c2sd = -0.8401
c2ed = -0.472
c3sd = -1.0187
c3ed = -0.3229
c4sd = -1.061
c4ed = 0.0
varx = 4.9595%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.55
 Actual Amplitude: 0.55
 Actual Power: 0.3025
 Distortion 2H-18H: 3.78566e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.3197 | end: 8.8169 | delta: 1.4972 |
| P2 start: 24.1533 | end: 28.5095 | delta: 4.3561 |
| P3 start: 40.8507 | end: 47.7647 | delta: 6.9141 |
| P4 start: 57.9952 | end: 66.9033 | delta: 8.9081 |
| P5 start: 75.7706 | end: 85.8041 | delta: 10.0336 |

H3: -1.37984e-07
 H5: 1.6558e-07
 H7: -3.94239e-08
 H9: 7.66576e-08
 H11: 6.27198e-08
 H13: 0.0
 H15: -2.02376e-07
 H17: 2.11034e-07

H19: 0.792754
 H21: -0.509932
 H23: -0.177595
 H25: -0.0176491
 H27: 0.00219939
 H29: 0.00349801
 H31: 0.0037895
 H33: 0.0027091

H19f: 0.0417239
 H21f: -0.0242825
 H23f: -0.00772152
 H25f: -0.000705965
 H27f: 8.14588e-05
 H29f: 0.000120621
 H31f: 0.000122242
 H33f: 8.20939e-05

c1sd = -0.995
 c1ed = 0.5022
 c2sd = -0.8579
 c2ed = -0.4793
 c3sd = -1.0517
 c3ed = -0.3329
 c4sd = -1.1016
 c4ed = 0.0
 varx = 4.8889%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 56/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.56
Actual Amplitude: 0.56
Actual Power: 0.3136
Distortion 2H-18H: 6.18166e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.3795 | end: 8.8986 | delta: 1.5192 |
| P2 start: 24.1197 | end: 28.5481 | delta: 4.4284 |
| P3 start: 40.7766 | end: 47.8101 | delta: 7.0336 |
| P4 start: 57.8968 | end: 66.9676 | delta: 9.0708 |
| P5 start: 75.6672 | end: 85.8925 | delta: 10.2252 |

| | |
|-------------------|-----------------|
| H3: -3.61386e-07 | H19: 0.781261 |
| H5: 2.71039e-08 | H21: -0.499084 |
| H7: -7.74398e-08 | H23: -0.18352 |
| H9: -3.01155e-07 | H25: -0.0198077 |
| H11: 2.71039e-07 | H27: 0.00141464 |
| H13: 2.08492e-07 | H29: 0.00281079 |
| H15: -1.08416e-07 | H31: 0.00308913 |
| H17: 1.59435e-07 | H33: 0.00182415 |

| |
|--------------------|
| H19f: 0.041119 |
| H21f: -0.0237659 |
| H23f: -0.00797912 |
| H25f: -0.000792307 |
| H27f: 5.23942e-05 |
| H29f: 9.69239e-05 |
| H31f: 9.96493e-05 |
| H33f: 5.52772e-05 |

c1sd = -0.9239
c1ed = 0.5952
c2sd = -0.8587
c2ed = -0.4735
c3sd = -1.0747
c3ed = -0.3386
c4sd = -1.1356
c4ed = 0.0
varx = 4.8159%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 57/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.57
Actual Amplitude: 0.57
Actual Power: 0.3249
Distortion 2H-18H: 5.93991e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.4227 | end: 8.9643 | delta: 1.5417 |
| P2 start: 24.0816 | end: 28.5819 | delta: 4.5003 |
| P3 start: 40.6997 | end: 47.8526 | delta: 7.1529 |
| P4 start: 57.7964 | end: 67.0303 | delta: 9.2339 |
| P5 start: 75.5627 | end: 85.9807 | delta: 10.4118 |

| | | |
|-------------------|------------------|--------------------|
| H3: 8.87614e-08 | H19: 0.770261 | H19f: 0.04054 |
| H5: 0.0 | H21: -0.487286 | H21f: -0.0232041 |
| H7: -1.71183e-07 | H23: -0.189108 | H23f: -0.00822209 |
| H9: 1.33142e-07 | H25: -0.0218612 | H25f: -0.000874446 |
| H11: 9.68306e-08 | H27: 0.000796505 | H27f: 2.95002e-05 |
| H13: -1.12659e-07 | H29: 0.00231386 | H29f: 7.97884e-05 |
| H15: 4.61559e-07 | H31: 0.00259725 | H31f: 8.37821e-05 |
| H17: -2.5062e-07 | H33: 0.00114389 | H33f: 3.46634e-05 |

c1sd = -0.8697
c1ed = 0.6719
c2sd = -0.8649
c2ed = -0.4716
c3sd = -1.1019
c3ed = -0.3459
c4sd = -1.1733
c4ed = 0.0
varx = 4.7429%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.58
 Actual Amplitude: 0.58
 Actual Power: 0.3364
 Distortion 2H-18H: 2.42991e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.5118 | end: 9.0747 | delta: 1.5629 |
| P2 start: 24.0564 | end: 28.6278 | delta: 4.5714 |
| P3 start: 40.6292 | end: 47.9002 | delta: 7.271 |
| P4 start: 57.699 | end: 67.095 | delta: 9.396 |
| P5 start: 75.459 | end: 86.0694 | delta: 10.6104 |

| | |
|------------------|-------------------|
| H3: 0.0 | H19: 0.757474 |
| H5: -2.61693e-08 | H21: -0.477663 |
| H7: 5.60771e-08 | H23: -0.195469 |
| H9: -1.16308e-07 | H25: -0.0243026 |
| H11: 2.37903e-08 | H27: -8.61358e-05 |
| H13: 1.30847e-07 | H29: 0.00156164 |
| H15: 1.74462e-08 | H31: 0.00184405 |
| H17: 1.53937e-07 | H33: 0.00018472 |

| |
|--------------------|
| H19f: 0.0398671 |
| H21f: -0.0227459 |
| H23f: -0.00849864 |
| H25f: -0.000972104 |
| H27f: -3.19021e-06 |
| H29f: 5.38495e-05 |
| H31f: 5.94853e-05 |
| H33f: 5.59756e-06 |

| |
|----------------|
| c1sd = -0.7692 |
| c1ed = 0.7937 |
| c2sd = -0.8571 |
| c2ed = -0.4588 |
| c3sd = -1.1209 |
| c3ed = -0.3496 |
| c4sd = -1.2059 |
| c4ed = 0.0 |
| varx = 4.668% |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 59/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.59
Actual Amplitude: 0.59
Actual Power: 0.3481
Distortion 2H-18H: 0.0001168429%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.3215 | end: 8.9134 | delta: 1.5919 |
| P2 start: 23.9531 | end: 28.598 | delta: 4.645 |
| P3 start: 40.5168 | end: 47.9101 | delta: 7.3933 |
| P4 start: 57.5775 | end: 67.1418 | delta: 9.5643 |
| P5 start: 75.3445 | end: 86.1554 | delta: 10.8109 |

| | |
|-------------------|------------------|
| H3: 1.28629e-07 | H19: 0.754632 |
| H5: 4.88789e-07 | H21: -0.454003 |
| H7: -6.06393e-07 | H23: -0.196671 |
| H9: 6.43144e-07 | H25: -0.0246244 |
| H11: 1.16935e-08 | H27: 0.000921849 |
| H13: -3.75992e-07 | H29: 0.00277561 |
| H15: 3.08709e-07 | H31: 0.00315841 |
| H17: -3.02656e-07 | H33: 0.00132768 |

| |
|--------------------|
| H19f: 0.0397175 |
| H21f: -0.0216192 |
| H23f: -0.00855092 |
| H25f: -0.000984975 |
| H27f: 3.41426e-05 |
| H29f: 9.57107e-05 |
| H31f: 0.000101884 |
| H33f: 4.02327e-05 |

| |
|----------------|
| c1sd = -0.9513 |
| c1ed = 0.6406 |
| c2sd = -0.9366 |
| c2ed = -0.5124 |
| c3sd = -1.1963 |
| c3ed = -0.3769 |
| c4sd = -1.2807 |
| c4ed = 0.0 |
| varx = 4.6022% |

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 60/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.6
Actual Amplitude: 0.6
Actual Power: 0.36
Distortion 2H-18H: 2.34758e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.2397 | end: 8.8577 | delta: 1.6181 |
| P2 start: 23.88 | end: 28.597 | delta: 4.7169 |
| P3 start: 40.42 | end: 47.9333 | delta: 7.5133 |
| P4 start: 57.4641 | end: 67.1945 | delta: 9.7304 |
| P5 start: 75.233 | end: 86.2426 | delta: 11.0096 |

| | | |
|-------------------|-----------------|-------------------|
| H3: 0.0 | H19: 0.747638 | H19f: 0.0393494 |
| H5: 5.0594e-08 | H21: -0.435682 | H21f: -0.0207467 |
| H7: -1.80693e-08 | H23: -0.199674 | H23f: -0.00868147 |
| H9: 4.21617e-08 | H25: -0.0258072 | H25f: -0.00103229 |
| H11: 8.04904e-08 | H27: 0.0012351 | H27f: 4.57445e-05 |
| H13: -1.94592e-07 | H29: 0.00328908 | H29f: 0.000113417 |
| H15: 5.0594e-08 | H31: 0.00374517 | H31f: 0.000120812 |
| H17: -5.95223e-08 | H33: 0.00170726 | H33f: 5.17353e-05 |

c1sd = -1.0239
c1ed = 0.5942
c2sd = -0.9828
c2ed = -0.5402
c3sd = -1.2513
c3ed = -0.3955
c4sd = -1.3414
c4ed = 0.0
varx = 4.5323%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.61
 Actual Amplitude: 0.61
 Actual Power: 0.3721
 Distortion 2H-18H: 2.83252e-05%
 First strong harmonics: 19 and 21
 Pulses per sine cycle: 20
 Total switching events: 40
 Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.2081 | end: 8.8504 | delta: 1.6423 |
| P2 start: 23.8203 | end: 28.6083 | delta: 4.788 |
| P3 start: 40.3297 | end: 47.9618 | delta: 7.6321 |
| P4 start: 57.3538 | end: 67.2492 | delta: 9.8954 |
| P5 start: 75.1222 | end: 86.3303 | delta: 11.2081 |

| | | |
|-------------------|-----------------|-------------------|
| H3: -4.14705e-08 | H19: 0.738752 | H19f: 0.0388817 |
| H5: -9.95292e-08 | H21: -0.4197 | H21f: -0.0199857 |
| H7: -3.55461e-08 | H23: -0.203527 | H23f: -0.00884901 |
| H9: -1.52058e-07 | H25: -0.0275148 | H25f: -0.00110059 |
| H11: 1.35722e-07 | H27: 0.00112718 | H27f: 4.17475e-05 |
| H13: 5.74207e-08 | H29: 0.00337824 | H29f: 0.000116491 |
| H15: 1.49294e-07 | H31: 0.00389155 | H31f: 0.000125534 |
| H17: -1.46366e-08 | H33: 0.00160396 | H33f: 4.86048e-05 |

| |
|----------------|
| c1sd = -1.0459 |
| c1ed = 0.5964 |
| c2sd = -1.0147 |
| c2ed = -0.5568 |
| c3sd = -1.2982 |
| c3ed = -0.4104 |
| c4sd = -1.3971 |
| c4ed = 0.0 |
| varx = 4.4604% |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 62/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.62
Actual Amplitude: 0.62
Actual Power: 0.3844
Distortion 2H-18H: 0.000145403%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.0714 | end: 8.7421 | delta: 1.6707 |
| P2 start: 23.7325 | end: 28.5922 | delta: 4.8596 |
| P3 start: 40.224 | end: 47.9761 | delta: 7.752 |
| P4 start: 57.234 | end: 67.2968 | delta: 10.0628 |
| P5 start: 75.0067 | end: 86.4172 | delta: 11.4105 |

| | | |
|-------------------|-----------------|-------------------|
| H3: -2.04008e-07 | H19: 0.733164 | H19f: 0.0385876 |
| H5: 4.89619e-07 | H21: -0.398609 | H21f: -0.0189814 |
| H7: -6.29511e-07 | H23: -0.205109 | H23f: -0.00891778 |
| H9: 6.93627e-07 | H25: -0.0282248 | H25f: -0.00112899 |
| H11: -2.22554e-08 | H27: 0.00196423 | H27f: 7.27493e-05 |
| H13: -5.36698e-07 | H29: 0.00447427 | H29f: 0.000154285 |
| H15: 4.56978e-07 | H31: 0.00511925 | H31f: 0.000165137 |
| H17: -6.76827e-07 | H33: 0.0026015 | H33f: 7.88332e-05 |

c1sd = -1.1742
c1ed = 0.4965
c2sd = -1.0782
c2ed = -0.5972
c3sd = -1.366
c3ed = -0.4339
c4sd = -1.4692
c4ed = 0.0
varx = 4.3918%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 63/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.63
Actual Amplitude: 0.63
Actual Power: 0.3969
Distortion 2H-18H: 6.92213e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 6.9888 | end: 8.6859 | delta: 1.6971 |
| P2 start: 23.659 | end: 28.5893 | delta: 4.9303 |
| P3 start: 40.1255 | end: 47.996 | delta: 7.8706 |
| P4 start: 57.1175 | end: 67.3466 | delta: 10.229 |
| P5 start: 74.8921 | end: 86.5047 | delta: 11.6126 |

| | | |
|-------------------|-----------------|-------------------|
| H3: 1.20462e-07 | H19: 0.725558 | H19f: 0.0381873 |
| H5: 2.40924e-07 | H21: -0.380058 | H21f: -0.018098 |
| H7: -4.99056e-07 | H23: -0.207602 | H23f: -0.00902619 |
| H9: 2.67693e-08 | H25: -0.029502 | H25f: -0.00118008 |
| H11: 1.31413e-07 | H27: 0.00234325 | H27f: 8.67869e-05 |
| H13: -5.55978e-08 | H29: 0.0051094 | H29f: 0.000176186 |
| H15: 3.69416e-07 | H31: 0.00586686 | H31f: 0.000189254 |
| H17: 0.0 | H33: 0.00307414 | H33f: 9.31557e-05 |

c1sd = -1.2481
c1ed = 0.449
c2sd = -1.1263
c2ed = -0.6254
c3sd = -1.4251
c3ed = -0.4535
c4sd = -1.5359
c4ed = 0.0
varx = 4.3212%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 64/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.64
Actual Amplitude: 0.64
Actual Power: 0.4096
Distortion 2H-18H: 4.26296e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.034 | end: 8.7514 | delta: 1.7174 |
| P2 start: 23.6184 | end: 28.6174 | delta: 4.999 |
| P3 start: 40.0438 | end: 48.0302 | delta: 7.9864 |
| P4 start: 57.0099 | end: 67.4024 | delta: 10.3925 |
| P5 start: 74.7807 | end: 86.5932 | delta: 11.8125 |

| | |
|------------------|-----------------|
| H3: -1.97633e-07 | H19: 0.713759 |
| H5: -1.42296e-07 | H21: -0.3674 |
| H7: -1.1858e-07 | H23: -0.212683 |
| H9: 2.6351e-08 | H25: -0.0322578 |
| H11: -1.617e-07 | H27: 0.00142991 |
| H13: 1.8243e-08 | H29: 0.00439918 |
| H15: 2.84591e-07 | H31: 0.00518574 |
| H17: 1.39506e-08 | H33: 0.00201743 |

| |
|-------------------|
| H19f: 0.0375663 |
| H21f: -0.0174952 |
| H23f: -0.0092471 |
| H25f: -0.00129031 |
| H27f: 5.29596e-05 |
| H29f: 0.000151696 |
| H31f: 0.000167282 |
| H33f: 6.11343e-05 |

c1sd = -1.1931
c1ed = 0.5244
c2sd = -1.1385
c2ed = -0.6257
c3sd = -1.4625
c3ed = -0.4636
c4sd = -1.5877
c4ed = 0.0
varx = 4.246%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 65/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.65
Actual Amplitude: 0.65
Actual Power: 0.4225
Distortion 2H-18H: 4.39336e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.1826 | end: 8.9162 | delta: 1.7336 |
| P2 start: 23.6053 | end: 28.6714 | delta: 5.0661 |
| P3 start: 39.9763 | end: 48.0762 | delta: 8.0999 |
| P4 start: 56.9096 | end: 67.4631 | delta: 10.5535 |
| P5 start: 74.6719 | end: 86.6827 | delta: 12.0108 |

H3: -1.94592e-07
H5: 1.63458e-07
H7: -1.33435e-07
H9: -1.03783e-07
H11: 8.4913e-08
H13: 1.25737e-07
H15: -9.34043e-08
H17: 2.60983e-07

H19: 0.698572
H21: -0.359556
H23: -0.219881
H25: -0.0361111
H27: -0.00035088
H29: 0.00281279
H31: 0.00358876
H33: -8.9937e-06

H19f: 0.0367669
H21f: -0.0171217
H23f: -0.00956003
H25f: -0.00144444
H27f: -1.29956e-05
H29f: 9.69928e-05
H31f: 0.000115766
H33f: -2.72536e-07

c1sd = -1.0338
c1ed = 0.6998
c2sd = -1.1206
c2ed = -0.6026
c3sd = -1.4818
c3ed = -0.4657
c4sd = -1.6273
c4ed = 0.0
varx = 4.167%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 66/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.66
Actual Amplitude: 0.66
Actual Power: 0.4356
Distortion 2H-18H: 3.58298e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.1538 | end: 8.9106 | delta: 1.7568 |
| P2 start: 23.5447 | end: 28.6793 | delta: 5.1346 |
| P3 start: 39.8829 | end: 48.0986 | delta: 8.2157 |
| P4 start: 56.7937 | end: 67.5122 | delta: 10.7185 |
| P5 start: 74.5554 | end: 86.7708 | delta: 12.2154 |

| | | |
|------------------|-------------------|--------------------|
| H3: -1.53315e-07 | H19: 0.688939 | H19f: 0.0362599 |
| H5: 2.06975e-07 | H21: -0.343208 | H21f: -0.0163433 |
| H7: -4.92799e-08 | H23: -0.223186 | H23f: -0.00970376 |
| H9: 1.0221e-07 | H25: -0.0382537 | H25f: -0.00153015 |
| H11: -1.568e-07 | H27: -0.000592163 | H27f: -2.1932e-05 |
| H13: 1.76902e-08 | H29: 0.00285063 | H29f: 9.82977e-05 |
| H15: 4.59945e-08 | H31: 0.00373014 | H31f: 0.000120327 |
| H17: 1.48806e-07 | H33: -0.000272221 | H33f: -8.24914e-06 |

c1sd = -1.054
c1ed = 0.7028
c2sd = -1.1562
c2ed = -0.6198
c3sd = -1.5362
c3ed = -0.4823
c4sd = -1.694
c4ed = 0.0
varx = 4.094%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 67/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.67
Actual Amplitude: 0.67
Actual Power: 0.4489
Distortion 2H-18H: 5.15704e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.1566 | end: 8.9352 | delta: 1.7786 |
| P2 start: 23.4923 | end: 28.6944 | delta: 5.2021 |
| P3 start: 39.7933 | end: 48.1235 | delta: 8.3303 |
| P4 start: 56.6792 | end: 67.5619 | delta: 10.8827 |
| P5 start: 74.4388 | end: 86.8592 | delta: 12.4204 |

| | |
|-------------------|-------------------|
| H3: -3.77567e-08 | H19: 0.678182 |
| H5: 4.53081e-08 | H21: -0.328276 |
| H7: -3.07447e-07 | H23: -0.227033 |
| H9: 8.8099e-08 | H25: -0.0407902 |
| H11: 1.44162e-07 | H27: -0.00111332 |
| H13: -2.09114e-07 | H29: 0.00262091 |
| H15: 3.02054e-07 | H31: 0.00360256 |
| H17: -6.66295e-08 | H33: -0.000849543 |

| |
|--------------------|
| H19f: 0.0356938 |
| H21f: -0.0156322 |
| H23f: -0.00987101 |
| H25f: -0.00163161 |
| H27f: -4.12341e-05 |
| H29f: 9.03762e-05 |
| H31f: 0.000116212 |
| H33f: -2.57437e-05 |

| |
|-----------------|
| c1sd = -1.0424 |
| c1ed = 0.7361 |
| c2sd = -1.1833 |
| c2ed = -0.63 |
| c3sd = -1.5864 |
| c3ed = -0.4968 |
| c4sd = -1.759 |
| c4ed = 0.0 |
| varx = 4.0198%. |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 68/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.68
Actual Amplitude: 0.68
Actual Power: 0.4624
Distortion 2H-18H: 5.89316e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.2865 | end: 9.0823 | delta: 1.7958 |
| P2 start: 23.4747 | end: 28.7423 | delta: 5.2676 |
| P3 start: 39.7218 | end: 48.1635 | delta: 8.4417 |
| P4 start: 56.5741 | end: 67.6177 | delta: 11.0436 |
| P5 start: 74.3256 | end: 86.9487 | delta: 12.6231 |

| | | |
|-------------------|------------------|--------------------|
| H3: 1.86007e-07 | H19: 0.663333 | H19f: 0.0349122 |
| H5: -4.68739e-07 | H21: -0.319337 | H21f: -0.0152065 |
| H7: 9.5661e-08 | H23: -0.233542 | H23f: -0.010154 |
| H9: -7.4403e-08 | H25: -0.0445794 | H25f: -0.00178318 |
| H11: -5.07293e-08 | H27: -0.00255576 | H27f: -9.46577e-05 |
| H13: 2.40379e-07 | H29: 0.00147801 | H29f: 5.09658e-05 |
| H15: -1.33925e-07 | H31: 0.00252815 | H31f: 8.15533e-05 |
| H17: 0.0 | H33: -0.00241296 | H33f: -7.31199e-05 |

c1sd = -0.9028
c1ed = 0.893
c2sd = -1.1724
c2ed = -0.6105
c3sd = -1.6136
c3ed = -0.5011
c4sd = -1.8082
c4ed = 0.0
varx = 3.9411%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 69/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.69
Actual Amplitude: 0.69
Actual Power: 0.4761
Distortion 2H-18H: 3.3732e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.411 | end: 9.225 | delta: 1.814 |
| P2 start: 23.4568 | end: 28.7892 | delta: 5.3324 |
| P3 start: 39.6495 | end: 48.2018 | delta: 8.5524 |
| P4 start: 56.4677 | end: 67.672 | delta: 11.2043 |
| P5 start: 74.2108 | end: 87.0382 | delta: 12.8274 |

| | | |
|-------------------|------------------|--------------------|
| H3: 3.66623e-08 | H19: 0.648525 | H19f: 0.0341329 |
| H5: 4.39948e-08 | H21: -0.31015 | H21f: -0.0147691 |
| H7: -1.09987e-07 | H23: -0.239819 | H23f: -0.0104269 |
| H9: -9.77662e-08 | H25: -0.0482686 | H25f: -0.00193074 |
| H11: 6.99917e-08 | H27: -0.00377631 | H27f: -0.000139863 |
| H13: -1.69211e-08 | H29: 0.000606013 | H29f: 2.0897e-05 |
| H15: 2.78634e-07 | H31: 0.00176409 | H31f: 5.69062e-05 |
| H17: 7.76378e-08 | H33: -0.0036824 | H33f: -0.000111588 |

c1sd = -0.7687
c1ed = 1.0453
c2sd = -1.1628
c2ed = -0.5913
c3sd = -1.6428
c3ed = -0.5058
c4sd = -1.8604
c4ed = 0.0
varx = 3.8625%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 70/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.7
Actual Amplitude: 0.7
Actual Power: 0.49
Distortion 2H-18H: 9.9428e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.4645 | end: 9.2987 | delta: 1.8341 |
| P2 start: 23.4186 | end: 28.816 | delta: 5.3975 |
| P3 start: 39.5657 | end: 48.2292 | delta: 8.6635 |
| P4 start: 56.3536 | end: 67.7203 | delta: 11.3667 |
| P5 start: 74.0917 | end: 87.1272 | delta: 13.0355 |

| | | |
|-------------------|------------------|--------------------|
| H3: 1.44554e-07 | H19: 0.635903 | H19f: 0.0334686 |
| H5: -6.72177e-07 | H21: -0.297454 | H21f: -0.0141645 |
| H7: 4.64639e-07 | H23: -0.24442 | H23f: -0.010627 |
| H9: -2.04785e-07 | H25: -0.0514363 | H25f: -0.00205745 |
| H11: -4.92799e-08 | H27: -0.00453853 | H27f: -0.000168094 |
| H13: 3.33587e-07 | H29: 0.000222585 | H29f: 7.67534e-06 |
| H15: 8.67326e-08 | H31: 0.00152951 | H31f: 4.9339e-05 |
| H17: 3.69889e-07 | H33: -0.00446579 | H33f: -0.000135327 |

c1sd = -0.7067
c1ed = 1.1274
c2sd = -1.1763
c2ed = -0.5891
c3sd = -1.6883
c3ed = -0.5169
c4sd = -1.9261
c4ed = 0.0
varx = 3.7864%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 71/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.71
Actual Amplitude: 0.71
Actual Power: 0.5041
Distortion 2H-18H: 4.07101e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.4146 | end: 9.271 | delta: 1.8564 |
| P2 start: 23.3496 | end: 28.8127 | delta: 5.4631 |
| P3 start: 39.4645 | end: 48.2403 | delta: 8.7758 |
| P4 start: 56.2285 | end: 67.7601 | delta: 11.5316 |
| P5 start: 73.9665 | end: 87.2156 | delta: 13.249 |

| | | |
|-------------------|------------------|--------------------|
| H3: 1.06889e-07 | H19: 0.626478 | H19f: 0.0329725 |
| H5: 8.5511e-08 | H21: -0.279608 | H21f: -0.0133147 |
| H7: -1.37428e-07 | H23: -0.246584 | H23f: -0.010721 |
| H9: 1.66271e-07 | H25: -0.0539535 | H25f: -0.00215814 |
| H11: -9.71716e-09 | H27: -0.00486913 | H27f: -0.000180338 |
| H13: -1.64444e-07 | H29: 0.000279171 | H29f: 9.6266e-06 |
| H15: 2.70785e-07 | H31: 0.00177825 | H31f: 5.7363e-05 |
| H17: 0.0 | H33: -0.00485303 | H33f: -0.000147062 |

c1sd = -0.7496
c1ed = 1.1068
c2sd = -1.225
c2ed = -0.6127
c3sd = -1.7578
c3ed = -0.5373
c4sd = -2.0114
c4ed = 0.0
varx = 3.714%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.72
Actual Amplitude: 0.72
Actual Power: 0.5184
Distortion 2H-18H: 7.11772e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.464 | end: 9.3403 | delta: 1.8763 |
| P2 start: 23.3096 | end: 28.8364 | delta: 5.5268 |
| P3 start: 39.3783 | end: 48.2634 | delta: 8.8851 |
| P4 start: 56.1109 | end: 67.8044 | delta: 11.6935 |
| P5 start: 73.8435 | end: 87.3047 | delta: 13.4612 |

| | | |
|-------------------|-------------------|--------------------|
| H3: 7.02694e-08 | H19: 0.613802 | H19f: 0.0323054 |
| H5: 4.00536e-07 | H21: -0.266565 | H21f: -0.0126936 |
| H7: -3.61386e-07 | H23: -0.250793 | H23f: -0.010904 |
| H9: 2.2252e-07 | H25: -0.0572867 | H25f: -0.00229147 |
| H11: 6.70754e-08 | H27: -0.00565117 | H27f: -0.000209302 |
| H13: -2.27024e-07 | H29: -6.95995e-05 | H29f: -2.39998e-06 |
| H15: 3.23239e-07 | H31: 0.00162762 | H31f: 5.2504e-05 |
| H17: -2.4801e-08 | H33: -0.00565764 | H33f: -0.000171444 |

c1sd = -0.6925
c1ed = 1.1838
c2sd = -1.2425
c2ed = -0.6116
c3sd = -1.8088
c3ed = -0.5494
c4sd = -2.0846
c4ed = 0.0
varx = 3.6382%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 73/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.73
Actual Amplitude: 0.73
Actual Power: 0.5329
Distortion 2H-18H: 3.93221e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.647 | end: 9.5415 | delta: 1.8945 |
| P2 start: 23.3107 | end: 28.8988 | delta: 5.5881 |
| P3 start: 39.3137 | end: 48.3042 | delta: 8.9905 |
| P4 start: 56.0047 | end: 67.8557 | delta: 11.851 |
| P5 start: 73.7246 | end: 87.395 | delta: 13.6704 |

| | | |
|-------------------|-------------------|--------------------|
| H3: -1.73267e-07 | H19: 0.596808 | H19f: 0.0314109 |
| H5: 2.07921e-07 | H21: -0.260115 | H21f: -0.0123864 |
| H7: -1.78218e-07 | H23: -0.257868 | H23f: -0.0112117 |
| H9: 1.15511e-07 | H25: -0.0614834 | H25f: -0.00245934 |
| H11: -1.22862e-07 | H27: -0.00672459 | H27f: -0.000249059 |
| H13: -4.79817e-08 | H29: -0.000626744 | H29f: -2.16119e-05 |
| H15: 2.77227e-08 | H31: 0.00128287 | H31f: 4.1383e-05 |
| H17: 1.34537e-07 | H33: -0.00663314 | H33f: -0.000201004 |

c1sd = -0.5005
c1ed = 1.394
c2sd = -1.2152
c2ed = -0.5754
c3sd = -1.8328
c3ed = -0.5493
c4sd = -2.1396
c4ed = 0.0
varx = 3.5578%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|--------------|
| Desired Amplitude: | 0.74 |
| Actual Amplitude: | 0.740001 |
| Actual Power: | 0.547601 |
| Distortion 2H-18H: | 0.000677381% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | |
|-----------|---------|--------------|----------------|
| P1 start: | 7.6246 | end: 9.54 | delta: 1.9154 |
| P2 start: | 23.2485 | end: 28.8997 | delta: 5.6512 |
| P3 start: | 39.214 | end: 48.3132 | delta: 9.0992 |
| P4 start: | 55.8768 | end: 67.8912 | delta: 12.0144 |
| P5 start: | 73.5944 | end: 87.4838 | delta: 13.8894 |

| | | |
|-------------------|-------------------|--------------------|
| H3: 2.73481e-07 | H19: 0.586248 | H19f: 0.0308551 |
| H5: -2.81001e-06 | H21: -0.2434 | H21f: -0.0115905 |
| H7: 3.17921e-06 | H23: -0.26015 | H23f: -0.0113109 |
| H9: -1.80042e-06 | H25: -0.0645597 | H25f: -0.00258239 |
| H11: -9.32321e-08 | H27: -0.00729109 | H27f: -0.00027004 |
| H13: 2.54022e-06 | H29: -0.000719853 | H29f: -2.48225e-05 |
| H15: -3.17238e-06 | H31: 0.00144965 | H31f: 4.67628e-05 |
| H17: 2.83535e-06 | H33: -0.00725285 | H33f: -0.000219783 |

| |
|-----------------|
| c1sd = -0.5166 |
| c1ed = 1.3988 |
| c2sd = -1.2593 |
| c2ed = -0.5925 |
| c3sd = -1.9043 |
| c3ed = -0.5685 |
| c4sd = -2.232 |
| c4ed = 0.0 |
| varx = 3.4847%. |

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 75/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.75
Actual Amplitude: 0.750001
Actual Power: 0.562501
Distortion 2H-18H: 0.0004750079
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.647 | end: 9.5826 | delta: 1.9356 |
| P2 start: 23.1999 | end: 28.9129 | delta: 5.713 |
| P3 start: 39.1209 | end: 48.3265 | delta: 9.2057 |
| P4 start: 55.7514 | end: 67.927 | delta: 12.1756 |
| P5 start: 73.4636 | end: 87.5731 | delta: 14.1094 |

| | | |
|-------------------|-------------------|--------------------|
| H3: 0.0 | H19: 0.574161 | H19f: 0.030219 |
| H5: -1.59877e-06 | H21: -0.228864 | H21f: -0.0108983 |
| H7: 2.31287e-06 | H23: -0.263255 | H23f: -0.0114459 |
| H9: -1.16928e-06 | H25: -0.067977 | H25f: -0.00271908 |
| H11: -1.93177e-07 | H27: -0.00796331 | H27f: -0.000294937 |
| H13: 1.94592e-06 | H29: -0.000867812 | H29f: -2.99246e-05 |
| H15: -2.30708e-06 | H31: 0.00160083 | H31f: 5.16397e-05 |
| H17: 2.03566e-06 | H33: -0.0079433 | H33f: -0.000240706 |

c1sd = -0.4879
c1ed = 1.4477
c2sd = -1.2897
c2ed = -0.5976
c3sd = -1.969
c3ed = -0.5836
c4sd = -2.3216
c4ed = 0.0
varx = 3.4102%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 76/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.76
Actual Amplitude: 0.76
Actual Power: 0.5776
Distortion 2H-18H: 0.0001654499%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 7.537 | end: 9.4937 | delta: 1.9567 |
| P2 start: 23.1092 | end: 28.8849 | delta: 5.7757 |
| P3 start: 39.0039 | end: 48.3178 | delta: 9.3139 |
| P4 start: 55.6106 | end: 67.951 | delta: 12.3405 |
| P5 start: 73.3239 | end: 87.6616 | delta: 14.3376 |

| | | |
|-------------------|-------------------|--------------------|
| H3: -3.32855e-08 | H19: 0.566011 | H19f: 0.0297901 |
| H5: 6.39082e-07 | H21: -0.207711 | H21f: -0.009891 |
| H7: -6.13405e-07 | H23: -0.263005 | H23f: -0.011435 |
| H9: 4.65997e-07 | H25: -0.0707434 | H25f: -0.00282974 |
| H11: 2.72336e-07 | H27: -0.00847497 | H27f: -0.000313888 |
| H13: -6.14502e-07 | H29: -0.000893286 | H29f: -3.0803e-05 |
| H15: 8.25481e-07 | H31: 0.00193591 | H31f: 6.24488e-05 |
| H17: -7.75357e-07 | H33: -0.00862741 | H33f: -0.000261437 |

c1sd = -0.5937
c1ed = 1.363
c2sd = -1.3681
c2ed = -0.6378
c3sd = -2.0669
c3ed = -0.6114
c4sd = -2.4384
c4ed = 0.0
varx = 3.3407%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 77/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.77
Actual Amplitude: 0.77
Actual Power: 0.5929
Distortion 2H-18H: 0.000807094%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.7882 end: 9.7636 delta: 1.9754
P2 start: 23.1331 end: 28.9657 delta: 5.8327
P3 start: 38.9486 end: 48.3612 delta: 9.4126
P4 start: 55.5044 end: 67.9972 delta: 12.4929
P5 start: 73.1987 end: 87.7527 delta: 14.554

| | | |
|-------------------|------------------|--------------------|
| H3: -7.55625e-07 | H19: 0.546707 | H19f: 0.0287741 |
| H5: 3.627e-06 | H21: -0.204493 | H21f: -0.00973776 |
| H7: -3.60447e-06 | H23: -0.271158 | H23f: -0.0117895 |
| H9: 2.04785e-06 | H25: -0.0755538 | H25f: -0.00302215 |
| H11: 5.28639e-07 | H27: -0.00934489 | H27f: -0.000346107 |
| H13: -3.59364e-06 | H29: -0.00104617 | H29f: -3.60747e-05 |
| H15: 3.53501e-06 | H31: 0.00213955 | H31f: 6.90177e-05 |
| H17: -2.92201e-06 | H33: -0.00924576 | H33f: -0.000280175 |

c1sd = -0.3345
c1ed = 1.641
c2sd = -1.3207
c2ed = -0.5805
c3sd = -2.0856
c3ed = -0.6047
c4sd = -2.4984
c4ed = 0.0
varx = 3.2585%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 78/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.78
Actual Amplitude: 0.779998
Actual Power: 0.608397
Distortion 2H-18H: 0.000901756%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.8323 end: 9.8278 delta: 1.9954
P2 start: 23.091 end: 28.9824 delta: 5.8915
P3 start: 38.8563 end: 48.3707 delta: 9.5145
P4 start: 55.3749 end: 68.026 delta: 12.6512
P5 start: 73.0605 end: 87.8424 delta: 14.782

| | | |
|-------------------|------------------|--------------------|
| H3: -1.52431e-06 | H19: 0.533674 | H19f: 0.0280881 |
| H5: 4.12537e-06 | H21: -0.190923 | H21f: -0.0090916 |
| H7: -3.25248e-06 | H23: -0.27419 | H23f: -0.0119213 |
| H9: 2.15133e-06 | H25: -0.0793713 | H25f: -0.00317485 |
| H11: 6.01468e-07 | H27: -0.0100125 | H27f: -0.000370831 |
| H13: -3.7721e-06 | H29: -0.00107543 | H29f: -3.70838e-05 |
| H15: 4.48861e-06 | H31: 0.00253278 | H31f: 8.17027e-05 |
| H17: -3.46833e-06 | H33: -0.00989763 | H33f: -0.000299928 |

c1sd = -0.2852
c1ed = 1.7102
c2sd = -1.3481
c2ed = -0.5784
c3sd = -2.155
c3ed = -0.6179
c4sd = -2.5991
c4ed = 0.0
varx = 3.1839%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 79/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.79
Actual Amplitude: 0.789999
Actual Power: 0.624098
Distortion 2H-18H: 0.00161317%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 7.8375 end: 9.8525 delta: 2.015
P2 start: 23.0354 end: 28.9853 delta: 5.9499
P3 start: 38.7555 end: 48.3713 delta: 9.6157
P4 start: 55.2386 end: 68.0483 delta: 12.8097
P5 start: 72.9167 end: 87.9321 delta: 15.0154

| | | |
|-------------------|------------------|--------------------|
| H3: -2.59375e-06 | H19: 0.521739 | H19f: 0.02746 |
| H5: 7.22407e-06 | H21: -0.175319 | H21f: -0.00834854 |
| H7: -7.28719e-06 | H23: -0.276063 | H23f: -0.0120027 |
| H9: 3.0207e-06 | H25: -0.083171 | H25f: -0.00332684 |
| H11: 1.20518e-06 | H27: -0.0107765 | H27f: -0.00039913 |
| H13: -5.88212e-06 | H29: -0.00119223 | H29f: -4.11115e-05 |
| H15: 7.95416e-06 | H31: 0.00290749 | H31f: 9.37901e-05 |
| H17: -6.30637e-06 | H33: -0.0107017 | H33f: -0.000324293 |

c1sd = -0.2762
c1ed = 1.7389
c2sd = -1.3924
c2ed = -0.587
c3sd = -2.2381
c3ed = -0.6351
c4sd = -2.7131
c4ed = 0.0
varx = 3.111%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 80/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.8
Actual Amplitude: 0.8
Actual Power: 0.64
Distortion 2H-18H: 0.00217359%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 8.0609 | end: 10.0986 | delta: 2.0377 |
| P2 start: 23.0555 | end: 29.0597 | delta: 6.0041 |
| P3 start: 38.6956 | end: 48.4053 | delta: 9.7098 |
| P4 start: 55.1244 | end: 68.0845 | delta: 12.9601 |
| P5 start: 72.7819 | end: 88.0232 | delta: 15.2413 |

| | | |
|-------------------|-------------------|--------------------|
| H3: 4.30049e-06 | H19: 0.50297 | H19f: 0.0264721 |
| H5: -1.05299e-05 | H21: -0.170945 | H21f: -0.00814022 |
| H7: 1.09093e-05 | H23: -0.282961 | H23f: -0.0123027 |
| H9: -3.79455e-06 | H25: -0.0876132 | H25f: -0.00350453 |
| H11: -2.95802e-06 | H27: -0.0107456 | H27f: -0.000397986 |
| H13: 9.35503e-06 | H29: -0.000327519 | H29f: -1.12937e-05 |
| H15: -8.89189e-06 | H31: 0.00418841 | H31f: 0.00013511 |
| H17: 5.85923e-06 | H33: -0.0103978 | H33f: -0.000315085 |

c1sd = -0.0464
c1ed = 1.9913
c2sd = -1.3538
c2ed = -0.531
c3sd = -2.2693
c3ed = -0.6298
c4sd = -2.791
c4ed = 0.0
varx = 3.0305%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 81/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.81
Actual Amplitude: 0.81
Actual Power: 0.6561
Distortion 2H-18H: 0.00313103%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.0795 end: 10.1369 delta: 2.0574
P2 start: 23.0042 end: 29.0645 delta: 6.0603
P3 start: 38.595 end: 48.4021 delta: 9.8071
P4 start: 54.9844 end: 68.1002 delta: 13.1158
P5 start: 72.6313 end: 88.1132 delta: 15.4819

H3: 5.27802e-06
H5: -1.40539e-05
H7: 1.48704e-05
H9: -8.06797e-06
H11: -3.42404e-06
H13: 1.26845e-05
H15: -1.44412e-05
H17: 9.35824e-06

H19: 0.490477
H21: -0.155948
H23: -0.28472
H25: -0.0917176
H27: -0.0114639
H29: -0.00031283
H31: 0.00478705
H33: -0.0111142

H19f: 0.0258146
H21f: -0.00742609
H23f: -0.0123791
H25f: -0.0036687
H27f: -0.00042459
H29f: -1.07872e-05
H31f: 0.000154421
H33f: -0.000336793

c1sd = -0.0251
c1ed = 2.0323
c2sd = -1.3972
c2ed = -0.5342
c3sd = -2.3575
c3ed = -0.6454
c4sd = -2.9155
c4ed = 0.0
varx = 2.9577%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 82/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.82
Actual Amplitude: 0.82
Actual Power: 0.6724
Distortion 2H-18H: 0.00492985%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 8.5227 end: 10.6159 delta: 2.0931
P2 start: 23.1159 end: 29.225 delta: 6.109
P3 start: 38.5844 end: 48.4748 delta: 9.8904
P4 start: 54.8957 end: 68.148 delta: 13.2523
P5 start: 72.503 end: 88.2062 delta: 15.7032

H3: 1.04581e-05 H19: 0.464245
H5: -2.17863e-05 H21: -0.16378
H7: 2.24632e-05 H23: -0.296302
H9: -9.9337e-06 H25: -0.0950025
H11: -7.25255e-06 H27: -0.00828817
H13: 2.06173e-05 H29: 0.00381501
H15: -2.37051e-05 H31: 0.00914237
H17: 1.42636e-05 H33: -0.00786463

H19f: 0.0244339 H21f: -0.00779906
H23f: -0.0128827 H25f: -0.0038001
H27f: -0.000306969 H29f: 0.000131552
H31f: 0.000294915 H33f: -0.000238322

c1sd = 0.4266
c1ed = 2.5197
c2sd = -1.261
c2ed = -0.3981
c3sd = -2.3301
c3ed = -0.6107
c4sd = -2.9563
c4ed = 0.0
varx = 2.8702%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 83/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.83
Actual Amplitude: 0.83
Actual Power: 0.688899
Distortion 2H-18H: 0.025056%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 8.8244 | end: 10.9554 | delta: 2.1311 |
| P2 start: 23.1856 | end: 29.3443 | delta: 6.1588 |
| P3 start: 38.5501 | end: 48.5246 | delta: 9.9745 |
| P4 start: 54.7906 | end: 68.1867 | delta: 13.3961 |
| P5 start: 72.3675 | end: 88.2975 | delta: 15.9299 |

H3: 5.4861e-05
H5: -0.000113434
H7: 0.00011462
H9: -5.1996e-05
H11: -2.99159e-05
H13: 0.000103758
H15: -0.000110551
H17: 8.47333e-05

H19: 0.442057
H21: -0.164882
H23: -0.303772
H25: -0.0973108
H27: -0.00448749
H29: 0.0083383
H31: 0.0134897
H33: -0.00461989

H19f: 0.0232661
H21f: -0.0078515
H23f: -0.0132075
H25f: -0.00389243
H27f: -0.000166203
H29f: 0.000287528
H31f: 0.000435152
H33f: -0.000139997

c1sd = 0.735
c1ed = 2.8661
c2sd = -1.1717
c2ed = -0.2984
c3sd = -2.3337
c3ed = -0.5916
c4sd = -3.0227
c4ed = 0.0
varx = 2.7882%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 84/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.84
Actual Amplitude: 0.840007
Actual Power: 0.705612
Distortion 2H-18H: 0.0340884%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 9.7025 | end: 11.9402 | delta: 2.2377 |
| P2 start: 23.5619 | end: 29.7627 | delta: 6.2008 |
| P3 start: 38.6945 | end: 48.7276 | delta: 10.0332 |
| P4 start: 54.7917 | end: 68.2909 | delta: 13.4991 |
| P5 start: 72.2795 | end: 88.3948 | delta: 16.1153 |

H3: 7.1885e-05
H5: -0.000151311
H7: 0.000153291
H9: -5.47695e-05
H11: -3.79945e-05
H13: 0.000158828
H15: -0.000147589
H17: 0.000114845

H19: 0.396402
H21: -0.202454
H23: -0.319756
H25: -0.0855979
H27: 0.017065
H29: 0.0279252
H31: 0.0295077
H33: 0.00844182

H19f: 0.0208633
H21f: -0.00964067
H23f: -0.0139024
H25f: -0.00342392
H27f: 0.000632035
H29f: 0.000962939
H31f: 0.00095186
H33f: 0.000255813

c1sd = 1.6315
c1ed = 3.8692
c2sd = -0.7423
c2ed = 0.0669
c3sd = -2.1067
c3ed = -0.4712
c4sd = -2.9174
c4ed = 0.0
varx = 2.6861%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 85/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.85
Actual Amplitude: 0.850005
Actual Power: 0.722508
Distortion 2H-18H: 0.0334917%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 10.6708 end: 13.0884 delta: 2.4176
P2 start: 24.1187 end: 30.371 delta: 6.2522
P3 start: 38.9642 end: 49.0398 delta: 10.0756
P4 start: 54.8712 end: 68.4414 delta: 13.5703
P5 start: 72.226 end: 88.4954 delta: 16.2694

| | | |
|-------------------|-----------------|-------------------|
| H3: 7.52061e-05 | H19: 0.338798 | H19f: 0.0178315 |
| H5: -0.000159924 | H21: -0.252918 | H21f: -0.0120437 |
| H7: 0.000159077 | H23: -0.32462 | H23f: -0.0141139 |
| H9: -4.96215e-05 | H25: -0.0498953 | H25f: -0.00199581 |
| H11: -3.74907e-05 | H27: 0.0574889 | H27f: 0.00212922 |
| H13: 0.000150037 | H29: 0.0573457 | H29f: 0.00197744 |
| H15: -0.000136805 | H31: 0.0484428 | H31f: 0.00156267 |
| H17: 0.000102654 | H33: 0.0206221 | H33f: 0.000624913 |

c1sd = 2.6261
c1ed = 5.0437
c2sd = -0.1087
c2ed = 0.5984
c3sd = -1.7175
c3ed = -0.2785
c4sd = -2.6874
c4ed = 0.0
varx = 2.5734%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 86/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.86
Actual Amplitude: 0.859994
Actual Power: 0.73959
Distortion 2H-18H: 0.0209655%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 11.6066 | end: 14.2772 | delta: 2.6706 |
| P2 start: 24.8441 | end: 31.1816 | delta: 6.3375 |
| P3 start: 39.3848 | end: 49.4909 | delta: 10.1061 |
| P4 start: 55.0545 | end: 68.6551 | delta: 13.6006 |
| P5 start: 72.221 | end: 88.6008 | delta: 16.3798 |

| | |
|-------------------|----------------|
| H3: 4.92118e-05 | H19: 0.269878 |
| H5: -9.0858e-05 | H21: -0.308836 |
| H7: 9.71084e-05 | H23: -0.304926 |
| H9: -2.82583e-05 | H25: 0.0158801 |
| H11: -2.11148e-05 | H27: 0.109949 |
| H13: 9.94735e-05 | H29: 0.0829571 |
| H15: -8.25982e-05 | H31: 0.056211 |
| H17: 7.67221e-05 | H33: 0.0207364 |

| |
|-------------------|
| H19f: 0.0142041 |
| H21f: -0.0147065 |
| H23f: -0.0132576 |
| H25f: 0.000635204 |
| H27f: 0.00407219 |
| H29f: 0.00286059 |
| H31f: 0.00181326 |
| H33f: 0.000628375 |

c1sd = 3.5994
c1ed = 6.27
c2sd = 0.7255
c2ed = 1.3002
c3sd = -1.1273
c3ed = 0.003
c4sd = -2.2904
c4ed = 0.0
varx = 2.4368%.

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

| | |
|-------------------------|-------------|
| Desired Amplitude: | 0.87 |
| Actual Amplitude: | 0.869999 |
| Actual Power: | 0.756898 |
| Distortion 2H-18H: | 0.00548226% |
| First strong harmonics: | 19 and 21 |
| Pulses per sine cycle: | 20 |
| Total switching events: | 40 |
| Delta Friendly: | No |

| | | | | | |
|-----------|---------|------|---------|--------|---------|
| P1 start: | 12.2405 | end: | 15.1471 | delta: | 2.9067 |
| P2 start: | 25.4677 | end: | 31.9269 | delta: | 6.4592 |
| P3 start: | 39.7937 | end: | 49.9435 | delta: | 10.1498 |
| P4 start: | 55.2461 | end: | 68.8715 | delta: | 13.6254 |
| P5 start: | 72.2198 | end: | 88.7057 | delta: | 16.486 |

| | | |
|-------------------|----------------|-------------------|
| H3: 1.59924e-05 | H19: 0.20873 | H19f: 0.0109858 |
| H5: -2.40758e-05 | H21: -0.344989 | H21f: -0.016428 |
| H7: 2.50852e-05 | H23: -0.267574 | H23f: -0.0116337 |
| H9: -7.02695e-06 | H25: 0.0813751 | H25f: 0.00325501 |
| H11: -3.88575e-06 | H27: 0.145778 | H27f: 0.00539917 |
| H13: 2.42368e-05 | H29: 0.0883225 | H29f: 0.0030456 |
| H15: -2.33547e-05 | H31: 0.048526 | H31f: 0.00156536 |
| H17: 1.8534e-05 | H33: 0.0117501 | H33f: 0.000356064 |

| |
|-----------------|
| c1sd = 4.2713 |
| c1ed = 7.178 |
| c2sd = 1.4593 |
| c2ed = 1.9353 |
| c3sd = -0.5467 |
| c3ed = 0.2839 |
| c4sd = -1.8825 |
| c4ed = 0.0 |
| varx = 2.2933%. |

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 88/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.88
Actual Amplitude: 0.88
Actual Power: 0.7744
Distortion 2H-18H: 0.00310041%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 12.6976 | end: 15.8195 | delta: 3.1219 |
| P2 start: 26.007 | end: 32.6192 | delta: 6.6122 |
| P3 start: 40.196 | end: 50.4066 | delta: 10.2106 |
| P4 start: 55.4534 | end: 69.1027 | delta: 13.6493 |
| P5 start: 72.233 | end: 88.8098 | delta: 16.5768 |

| | |
|-------------------|-----------------|
| H3: 7.87657e-06 | H19: 0.15328 |
| H5: -1.28152e-05 | H21: -0.367192 |
| H7: 1.38476e-05 | H23: -0.220357 |
| H9: -3.99578e-06 | H25: 0.139422 |
| H11: -2.97135e-06 | H27: 0.164093 |
| H13: 1.39576e-05 | H29: 0.0797364 |
| H15: -1.42123e-05 | H31: 0.0348302 |
| H17: 1.10285e-05 | H33: 0.00286154 |

| |
|-------------------|
| H19f: 0.00806736 |
| H21f: -0.0174853 |
| H23f: -0.00958073 |
| H25f: 0.00557687 |
| H27f: 0.00607753 |
| H29f: 0.00274953 |
| H31f: 0.00112356 |
| H33f: 8.67133e-05 |

c1sd = 4.769
c1ed = 7.8909
c2sd = 2.1165
c2ed = 2.5097
c3sd = 0.0391
c3ed = 0.5634
c4sd = -1.4438
c4ed = 0.0
varx = 2.1508%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 89/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.89
Actual Amplitude: 0.89
Actual Power: 0.7921
Distortion 2H-18H: 0.00190204%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.0149 end: 16.3197 delta: 3.3048
P2 start: 26.4344 end: 33.2144 delta: 6.78
P3 start: 40.5521 end: 50.8439 delta: 10.2918
P4 start: 55.6501 end: 69.3276 delta: 13.6775
P5 start: 72.244 end: 88.9124 delta: 16.6684

H3: 4.97413e-06 H19: 0.105792
H5: -8.28832e-06 H21: -0.376787
H7: 8.45399e-06 H23: -0.173103
H9: -2.90868e-06 H25: 0.183252
H11: -1.76743e-06 H27: 0.167759
H13: 9.83894e-06 H29: 0.0654069
H15: -6.41236e-06 H31: 0.0225895
H17: 6.88185e-06 H33: -0.00243255

H19f: 0.00556797
H21f: -0.0179422
H23f: -0.00752623
H25f: 0.00733007
H27f: 0.0062133
H29f: 0.00225541
H31f: 0.000728695
H33f: -7.37137e-05

c1sd = 5.1259
c1ed = 8.4306
c2sd = 2.6585
c2ed = 2.9903
c3sd = 0.5737
c3ed = 0.8222
c4sd = -1.0223
c4ed = 0.0
varx = 2.0238%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 90/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.9
Actual Amplitude: 0.9
Actual Power: 0.81
Distortion 2H-18H: 0.00230951%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.2682 end: 16.7427 delta: 3.4745
P2 start: 26.8144 end: 33.7815 delta: 6.9671
P3 start: 40.909 end: 51.3046 delta: 10.3957
P4 start: 55.8743 end: 69.5766 delta: 13.7023
P5 start: 72.2773 end: 89.0153 delta: 16.738

H3: 6.07128e-06
H5: -9.49481e-06
H7: 1.15523e-05
H9: -2.59528e-06
H11: -1.05021e-06
H13: 9.71016e-06
H15: -9.68032e-06
H17: 8.77955e-06

H19: 0.061011
H21: -0.379304
H23: -0.123276
H25: 0.217973
H27: 0.161328
H29: 0.048944
H31: 0.0129947
H33: -0.00472091

H19f: 0.0032111
H21f: -0.0180621
H23f: -0.00535984
H25f: 0.0087189
H27f: 0.00597512
H29f: 0.00168772
H31f: 0.000419182
H33f: -0.000143058

c1sd = 5.4228
c1ed = 8.8974
c2sd = 3.1653
c2ed = 3.4306
c3sd = 1.1282
c3ed = 1.0854
c4sd = -0.5491
c4ed = 0.0
varx = 1.9112%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 91/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.91
Actual Amplitude: 0.91
Actual Power: 0.8281
Distortion 2H-18H: 0.00203185%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 13.4293 | end: 17.037 | delta: 3.6078 |
| P2 start: 27.0736 | end: 34.2132 | delta: 7.1395 |
| P3 start: 41.171 | end: 51.6843 | delta: 10.5133 |
| P4 start: 56.0427 | end: 69.7861 | delta: 13.7434 |
| P5 start: 72.2817 | end: 89.1153 | delta: 16.8336 |

| | | |
|-------------------|------------------|--------------------|
| H3: 5.92117e-06 | H19: 0.026242 | H19f: 0.00138116 |
| H5: -7.25551e-06 | H21: -0.373889 | H21f: -0.0178042 |
| H7: 9.61445e-06 | H23: -0.085236 | H23f: -0.00370591 |
| H9: -2.30731e-06 | H25: 0.237839 | H25f: 0.00951354 |
| H11: -1.03109e-06 | H27: 0.151452 | H27f: 0.00560934 |
| H13: 1.01038e-05 | H29: 0.0366379 | H29f: 0.00126337 |
| H15: -6.5383e-06 | H31: 0.00793468 | H31f: 0.000255957 |
| H17: 9.02647e-06 | H33: -0.00506935 | H33f: -0.000153617 |

c1sd = 5.6207
c1ed = 9.2285
c2sd = 3.5313
c2ed = 3.7555
c3sd = 1.5565
c3ed = 1.2988
c4sd = -0.1712
c4ed = 0.0
varx = 1.8238%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 92/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.92
Actual Amplitude: 0.92
Actual Power: 0.8464
Distortion 2H-18H: 0.0012674%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

| | | |
|-------------------|--------------|----------------|
| P1 start: 13.5579 | end: 17.2876 | delta: 3.7297 |
| P2 start: 27.2935 | end: 34.608 | delta: 7.3145 |
| P3 start: 41.4133 | end: 52.061 | delta: 10.6476 |
| P4 start: 56.2159 | end: 70.0033 | delta: 13.7874 |
| P5 start: 72.295 | end: 89.2149 | delta: 16.9198 |

| | | |
|-------------------|------------------|--------------------|
| H3: 2.80467e-06 | H19: -0.00548756 | H19f: -0.000288819 |
| H5: -5.31237e-06 | H21: -0.365014 | H21f: -0.0173816 |
| H7: 6.69349e-06 | H23: -0.0501218 | H23f: -0.00217921 |
| H9: -1.80562e-06 | H25: 0.251054 | H25f: 0.0100422 |
| H11: -5.62433e-07 | H27: 0.139244 | H27f: 0.00515717 |
| H13: 6.68805e-06 | H29: 0.0265451 | H29f: 0.000915348 |
| H15: -3.95953e-06 | H31: 0.00503313 | H31f: 0.000162359 |
| H17: 3.96923e-06 | H33: -0.0046436 | H33f: -0.000140715 |

c1sd = 5.7874
c1ed = 9.5172
c2sd = 3.8618
c2ed = 4.0396
c3sd = 1.9711
c3ed = 1.5032
c4sd = 0.2191
c4ed = 0.0
varx = 1.752%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 93/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.93
Actual Amplitude: 0.93
Actual Power: 0.8649
Distortion 2H-18H: 0.0006623429%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.6507 end: 17.4866 delta: 3.8359
P2 start: 27.4597 end: 34.9399 delta: 7.4803
P3 start: 41.609 end: 52.4006 delta: 10.7915
P4 start: 56.3649 end: 70.2047 delta: 13.8398
P5 start: 72.298 end: 89.3129 delta: 17.015

| | | |
|-------------------|------------------|--------------------|
| H3: 1.41446e-06 | H19: -0.0323696 | H19f: -0.00170366 |
| H5: -2.30121e-06 | H21: -0.353438 | H21f: -0.0168304 |
| H7: 3.31076e-06 | H23: -0.0219212 | H23f: -0.000953094 |
| H9: -1.58673e-06 | H25: 0.257974 | H25f: 0.010319 |
| H11: -5.3413e-07 | H27: 0.127651 | H27f: 0.00472783 |
| H13: 3.07581e-06 | H29: 0.0195508 | H29f: 0.000674165 |
| H15: -2.98124e-06 | H31: 0.00375024 | H31f: 0.000120976 |
| H17: 2.11208e-06 | H33: -0.00404195 | H33f: -0.000122483 |

c1sd = 5.9157
c1ed = 9.7515
c2sd = 4.1307
c2ed = 4.2689
c3sd = 2.3267
c3ed = 1.6829
c4sd = 0.5697
c4ed = 0.0
varx = 1.6943%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 94/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.94
Actual Amplitude: 0.94
Actual Power: 0.8836
Distortion 2H-18H: 0.00121766%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.7317 end: 17.6704 delta: 3.9387
P2 start: 27.6121 end: 35.2637 delta: 7.6515
P3 start: 41.8044 end: 52.7592 delta: 10.9548
P4 start: 56.5364 end: 70.4341 delta: 13.8977
P5 start: 72.3277 end: 89.4113 delta: 17.0836

| | | |
|-------------------|------------------|--------------------|
| H3: 3.04102e-06 | H19: -0.058342 | H19f: -0.00307063 |
| H5: -4.45658e-06 | H21: -0.340187 | H21f: -0.0161994 |
| H7: 6.1474e-06 | H23: 0.00546105 | H23f: 0.000237437 |
| H9: -1.4622e-06 | H25: 0.261258 | H25f: 0.0104503 |
| H11: 7.92672e-07 | H27: 0.115339 | H27f: 0.00427183 |
| H13: 6.06134e-06 | H29: 0.014321 | H29f: 0.000493826 |
| H15: -4.43505e-06 | H31: 0.00319599 | H31f: 0.000103097 |
| H17: 4.71113e-06 | H33: -0.00333219 | H33f: -0.000100975 |

c1sd = 6.037
c1ed = 9.9757
c2sd = 4.4
c2ed = 4.4758
c3sd = 2.7042
c3ed = 1.8595
c4sd = 0.9706
c4ed = 0.0
varx = 1.649%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 95/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.95
Actual Amplitude: 0.95
Actual Power: 0.9025
Distortion 2H-18H: 0.0002713579
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.8012 end: 17.8384 delta: 4.0372
P2 start: 27.7483 end: 35.5738 delta: 7.8255
P3 start: 41.9934 end: 53.1319 delta: 11.1384
P4 start: 56.7269 end: 70.6943 delta: 13.9674
P5 start: 72.3877 end: 89.5099 delta: 17.1222

| | | |
|-------------------|------------------|--------------------|
| H3: 3.72798e-07 | H19: -0.0830714 | H19f: -0.00437218 |
| H5: -1.08644e-06 | H21: -0.325363 | H21f: -0.0154935 |
| H7: 1.36946e-06 | H23: 0.0310816 | H23f: 0.00135137 |
| H9: -9.05366e-07 | H25: 0.26103 | H25f: 0.0104412 |
| H11: -7.98853e-08 | H27: 0.103256 | H27f: 0.00382429 |
| H13: 1.37648e-06 | H29: 0.0109956 | H29f: 0.000379159 |
| H15: -1.10774e-06 | H31: 0.00300357 | H31f: 9.68895e-05 |
| H17: 4.69913e-07 | H33: -0.00267857 | H33f: -8.11688e-05 |

c1sd = 6.1521
c1ed = 10.1893
c2sd = 4.6687
c2ed = 4.6533
c3sd = 3.0997
c3ed = 2.0256
c4sd = 1.4212
c4ed = 0.0
varx = 1.6155%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 96/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.96
Actual Amplitude: 0.96
Actual Power: 0.9216
Distortion 2H-18H: 0.00129485%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.8428 end: 17.9629 delta: 4.1201
P2 start: 27.8332 end: 35.8117 delta: 7.9785
P3 start: 42.1186 end: 53.4346 delta: 11.3116
P4 start: 56.8614 end: 70.9123 delta: 14.0509
P5 start: 72.4146 end: 89.6058 delta: 17.1912

H3: 3.42563e-06 H19: -0.102249
H5: -4.04752e-06 H21: -0.310257
H7: 7.00185e-06 H23: 0.0474125
H9: -1.29998e-06 H25: 0.258354
H11: 2.44346e-07 H27: 0.095029
H13: 5.02291e-06 H29: 0.00959757
H15: -5.52318e-06 H31: 0.00296669
H17: 5.74763e-06 H33: -0.00224039

H19f: -0.00538151
H21f: -0.0147742
H23f: 0.00206141
H25f: 0.0103341
H27f: 0.00351959
H29f: 0.000330951
H31f: 9.56995e-05
H33f: -6.78906e-05

c1sd = 6.2319
c1ed = 10.3521
c2sd = 4.8648
c2ed = 4.7802
c3sd = 3.3979
c3ed = 2.1553
c4sd = 1.7737
c4ed = 0.0
varx = 1.5858%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 97/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.97
Actual Amplitude: 0.97
Actual Power: 0.9409
Distortion 2H-18H: 3.50315e-05%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.8655 end: 18.0569 delta: 4.1914
P2 start: 27.8814 end: 35.9955 delta: 8.1141
P3 start: 42.1942 end: 53.6779 delta: 11.4837
P4 start: 56.9464 end: 71.0815 delta: 14.1351
P5 start: 72.4003 end: 89.6995 delta: 17.2992

H3: -1.30397e-07
H5: 0.0
H7: -1.22946e-07
H9: -1.99942e-07
H11: -6.4013e-08
H13: -1.32403e-07
H15: 0.0
H17: -1.70283e-07

H19: -0.117115
H21: -0.295593
H23: 0.056644
H25: 0.254999
H27: 0.0897864
H29: 0.0091452
H31: 0.00297313
H33: -0.00199655

H19f: -0.00616394
H21f: -0.0140759
H23f: 0.00246278
H25f: 0.0102
H27f: 0.00332542
H29f: 0.000315352
H31f: 9.59074e-05
H33f: -6.05017e-05

c1sd = 6.2844
c1ed = 10.4758
c2sd = 4.9991
c2ed = 4.8777
c3sd = 3.6077
c3ed = 2.2644
c4sd = 2.028
c4ed = 0.0
varx = 1.5562%.

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and development assistance available via done@tinaja.com or www.tinaja.com/magsn01.html

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 98/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.98
Actual Amplitude: 0.98
Actual Power: 0.9604
Distortion 2H-18H: 0.0001123529%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.8847 end: 18.1463 delta: 4.2616
P2 start: 27.9243 end: 36.1751 delta: 8.2509
P3 start: 42.2674 end: 53.931 delta: 11.6635
P4 start: 57.0433 end: 71.2767 delta: 14.2333
P5 start: 72.4118 end: 89.7932 delta: 17.3814

H3: 1.80693e-07 H19: -0.131423
H5: -2.16831e-07 H21: -0.280757
H7: 6.52707e-07 H23: 0.0650633
H9: -3.44177e-08 H25: 0.250796
H11: 4.22399e-08 H27: 0.0850726
H13: 7.62484e-07 H29: 0.00917708
H15: -3.20084e-07 H31: 0.0028339
H17: 2.64206e-07 H33: -0.00168714

H19f: -0.00691701 H21f: -0.0133694
H23f: 0.00282884 H25f: 0.0100318
H27f: 0.00315084 H29f: 0.000316451
H31f: 9.14163e-05 H33f: -5.11256e-05

c1sd = 6.3378
c1ed = 10.5995
c2sd = 5.1415
c2ed = 4.958
c3sd = 3.8358
c3ed = 2.3626
c4sd = 2.32
c4ed = 0.0
varx = 1.5316%.

STEP-LOCKED MAGIC SINEWAVE

ANXC20 - 99/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.99
Actual Amplitude: 0.99
Actual Power: 0.9801
Distortion 2H-18H: 0.00117392%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.898 end: 18.2266 delta: 4.3286
P2 start: 27.9562 end: 36.3404 delta: 8.3841
P3 start: 42.328 end: 54.1773 delta: 11.8493
P4 start: 57.137 end: 71.4855 delta: 14.3485
P5 start: 72.4388 end: 89.8863 delta: 17.4475

| | | |
|------------------|------------------|--------------------|
| H3: 2.65746e-06 | H19: -0.144417 | H19f: -0.00760089 |
| H5: -4.01686e-06 | H21: -0.266072 | H21f: -0.0126701 |
| H7: 6.16546e-06 | H23: 0.0714053 | H23f: 0.00310458 |
| H9: -1.72905e-06 | H25: 0.246154 | H25f: 0.00984616 |
| H11: 9.40797e-07 | H27: 0.0814243 | H27f: 0.00301572 |
| H13: 5.29527e-06 | H29: 0.00956415 | H29f: 0.000329798 |
| H15: -4.4257e-06 | H31: 0.00257207 | H31f: 8.297e-05 |
| H17: 5.0098e-06 | H33: -0.00134011 | H33f: -4.06094e-05 |

c1sd = 6.3878
c1ed = 10.7164
c2sd = 5.2798
c2ed = 5.0168
c3sd = 4.0621
c3ed = 2.4432
c4sd = 2.6224
c4ed = 0.0
varx = 1.5098%.

STEP-LOCKED MAGIC SINEWAVE ANXC20 - 100/100

SUMMARY: This steplock-20 "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 18 are virtually zero. The first major harmonics are the 19th and 21st. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 1.0
Actual Amplitude: 1.0
Actual Power: 1.0
Distortion 2H-18H: 0.000169701%
First strong harmonics: 19 and 21
Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 13.904 end: 18.295 delta: 4.391
P2 start: 27.9734 end: 36.4834 delta: 8.51
P3 start: 42.3676 end: 54.4011 delta: 12.0335
P4 start: 57.2122 end: 71.6846 delta: 14.4724
P5 start: 72.4596 end: 89.9785 delta: 17.5189

| | | |
|-------------------|-----------------|--------------------|
| H3: 7.08316e-07 | H19: -0.155517 | H19f: -0.00818509 |
| H5: -4.55346e-07 | H21: -0.251916 | H21f: -0.011996 |
| H7: 7.15544e-07 | H23: 0.0747942 | H23f: 0.00325192 |
| H9: -2.44538e-07 | H25: 0.241657 | H25f: 0.00966628 |
| H11: 9.65885e-08 | H27: 0.079076 | H27f: 0.00292874 |
| H13: 7.12208e-07 | H29: 0.0101354 | H29f: 0.000349495 |
| H15: -3.79455e-07 | H31: 0.00227165 | H31f: 7.32789e-05 |
| H17: 9.68726e-07 | H33: -0.0010343 | H33f: -3.13425e-05 |

c1sd = 6.4288
c1ed = 10.8198
c2sd = 5.3984
c2ed = 5.0584
c3sd = 4.2598
c3ed = 2.509
c4sd = 2.8968
c4ed = 0.0
varx = 1.4882%.